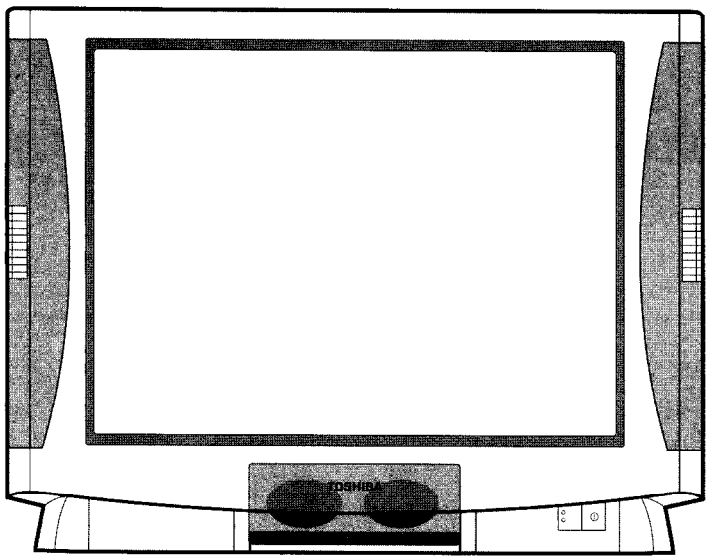
TOSHIBA

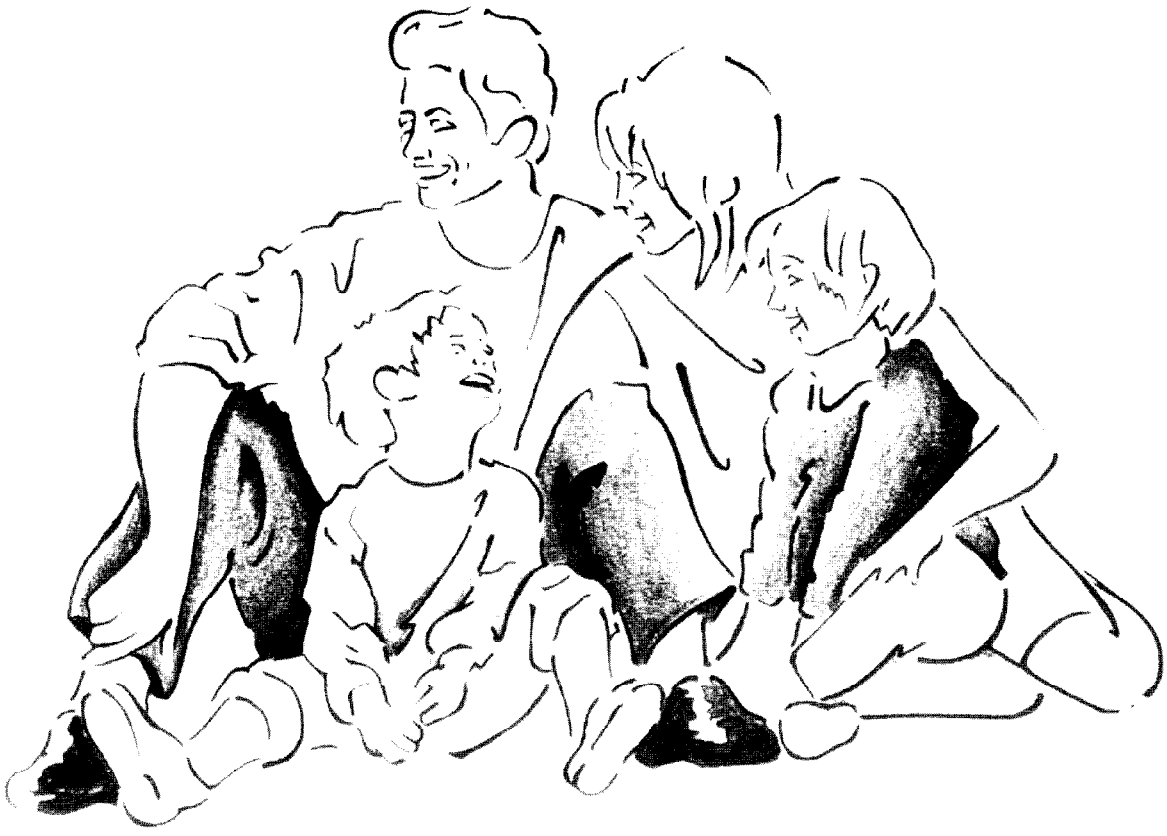


3787DB

Nicam Stereo Colour Television
with Fastext

* DOLBY DIGITAL

OWNER'S MANUAL



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This manual has been designed to be easy to use, but if you need advice in using your Toshiba Television, we have provided a Customer Helpline for you.

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Introduction

The following describes the initial set-up procedure in order to operate the features of your TV. Your new Toshiba television is designed to automatically tune in and store all available terrestrial transmissions and to allocate a satellite position. Complete the installation as described on pages 3-5 before switching on the TV.

Electrical installation:

The mains supply required for this equipment is 220v to 240v AC 50Hz. Never connect to a DC supply or any other power source.

Mains Plug

DO NOT cut off the fused mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.

The fuse fitted in this plug is 5A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be re-fitted.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN

Air Circulation

Leave at least 10 cm clearance around the television to allow adequate ventilation. This will prevent the TV from overheating and consequential possible damage to the TV. Dusty places should also be avoided.

If using a video recorder mounted in a cabinet below your TV, it is recommended that it is placed on the lowest shelf of the cabinet for optimum performance.

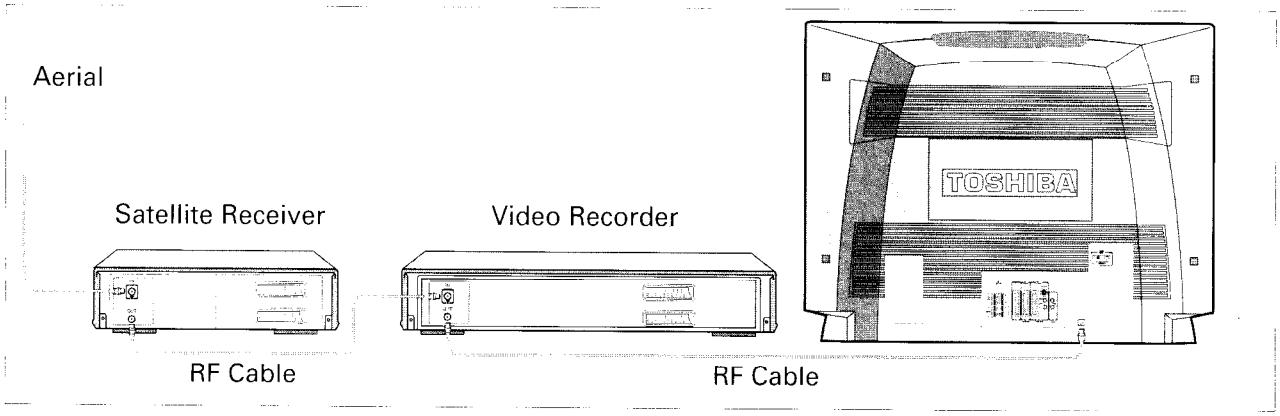
Connecting your TV:

Connecting up

Connect the aerial plug to the socket on the rear of the television. If you use a satellite receiver and/or a video recorder it is essential that the aerial cable is connected through the satellite receiver and/or through the video recorder to the television.

DO NOT CONNECT SCART LEADS UNTIL THE TELEVISION IS FULLY TUNED.

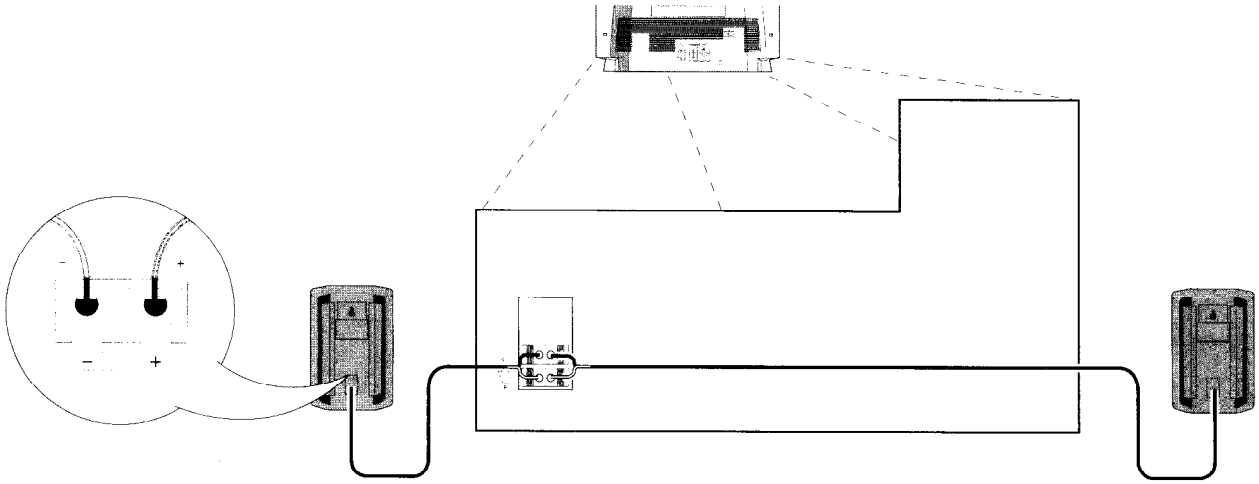
If you use a satellite receiver and/or a video recorder it is essential that these are connected using an RF lead (aerial lead) only, before starting the tuning procedures. DO NOT use Scart leads to connect satellite receivers and video recorders until after the set is tuned.



Installation

When connecting external speakers always make sure that the power switch is turned off.

Connecting the Surround Speakers:



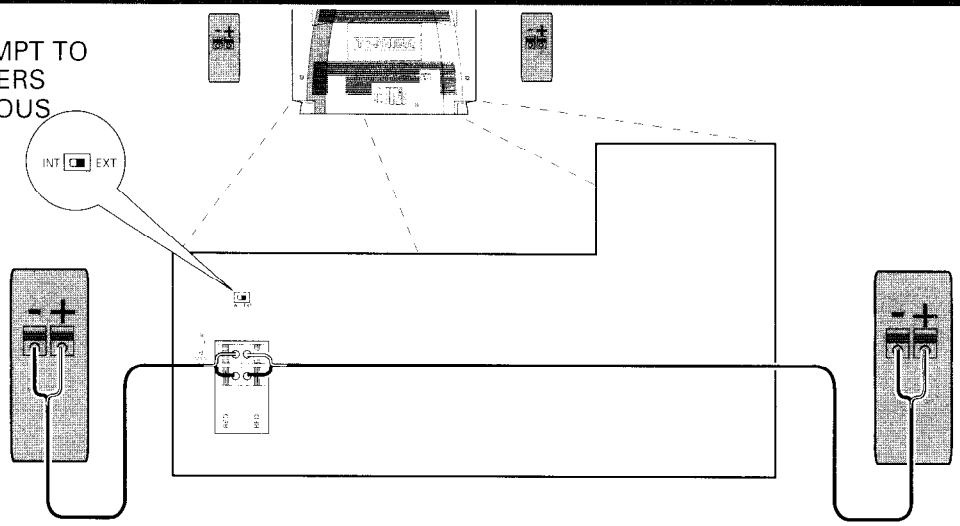
In order to enjoy the sensations of Surround Sound TV it is necessary to connect the 2 surround speakers. These speakers and cables are included with the TV and should be sited in line with the normal viewing position.

The instructions enclosed with the surround speakers supplied, conform to the American standards, and therefore should be ignored.

To connect the Surround Speakers simply press the connector and insert the cable. Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

Connecting the External Left and Right Speakers:

WARNING: DO NOT ATTEMPT TO SHARE EXTERNAL SPEAKERS WITH YOUR HI-FI AS SERIOUS DAMAGE MAY OCCUR.



To improve the positioning of the centre channel ie dialogue, we recommend that external speakers are used. When connecting external Hi-Fi speakers of your choice, they must be 8 ohm, 10W minimum. These speakers should be positioned beside the TV and will deliver the left and right sound channels. Simply press the connector as shown and insert the cable. Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

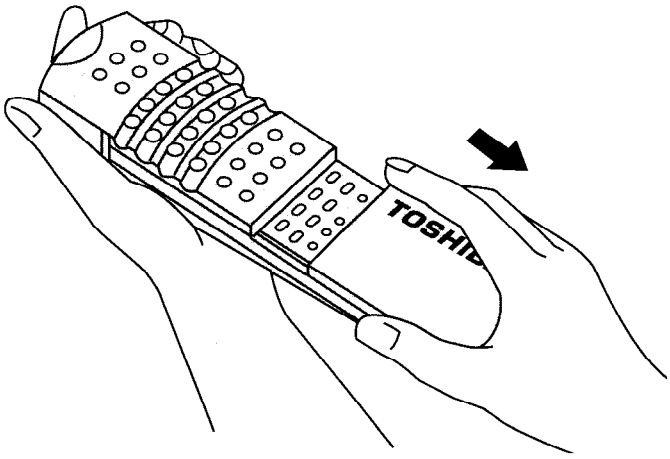
You must now set the switch to EXT as shown.

Preparing the remote control

The remote control:

In addition to the standard set of function buttons, your remote control has a concealed portion in which the tuning and additional feature buttons are located.

Carefully slide back the lower portion of the remote control to reveal the concealed buttons.

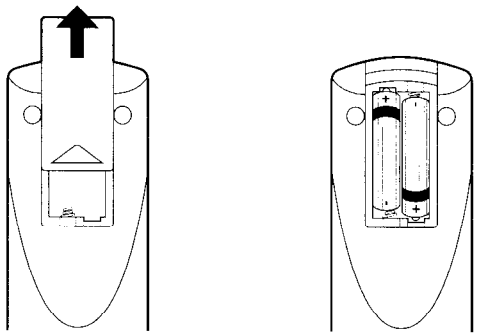


Batteries for the remote control:

Carefully slide the cover upwards to reveal the battery compartment of the remote control (located on the rear). When fitting new batteries take care to observe the correct polarities.

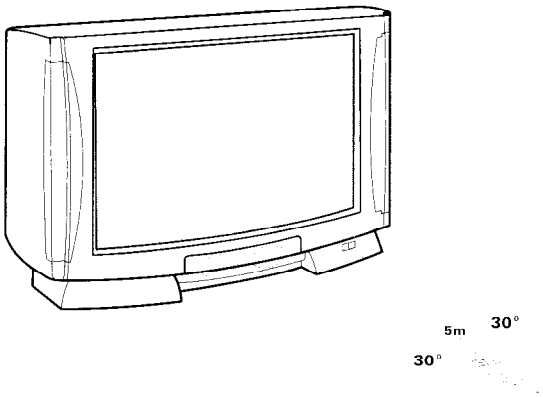
All Toshiba batteries are Cadmium and Mercury free.
Suitable battery types are: R6 or AA.

Caution: **Do not** throw your batteries into a fire. Dispose of your batteries in a designated disposal area. **Do not** combine a used old battery with a new one.
Do not mix battery types.



Effective range for the remote control:

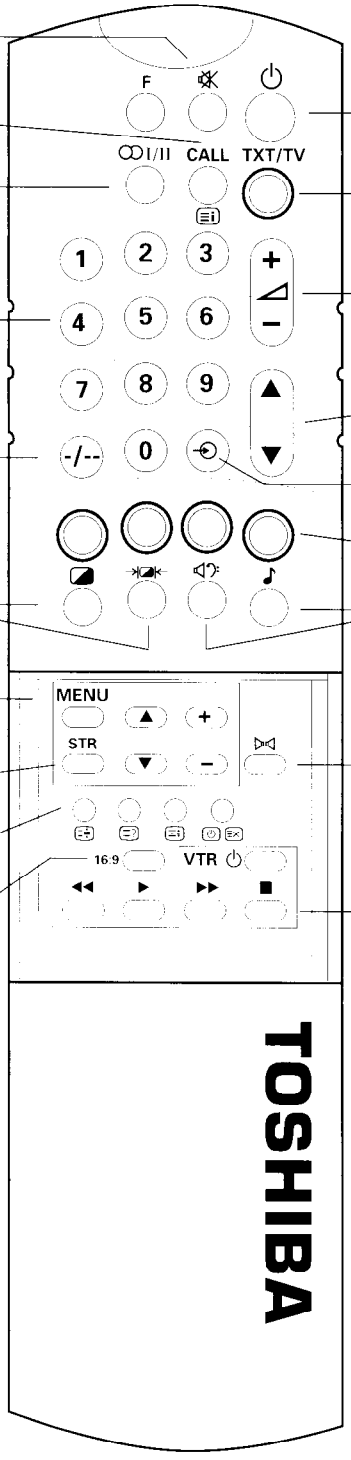
The performance of the remote control will deteriorate beyond a distance of 5 metres or outside an angle of 30 degrees from the central position.



Your remote control

The illustration below is designed to show the areas of the remote control. Individual buttons are described in the text.

Your remote control:



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Page 16

CALL
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Stereo/Bilingual
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Keypad Number Buttons

1 or 2 Digit Channel Selection
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Slide

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(VTR, Satellite, DVD etc)

Teletext Coloured Prompt Buttons
Page 33

Sound Controls Page 18

Dolby Surround Pages 20-28

Video Recorder Buttons
to operate your Toshiba
Video Recorder

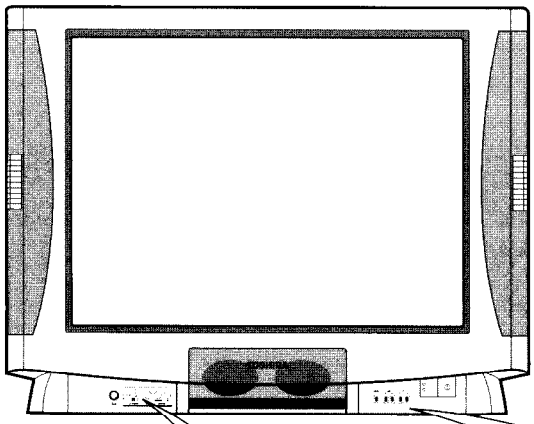
Press the VTR button and
one of the following
buttons

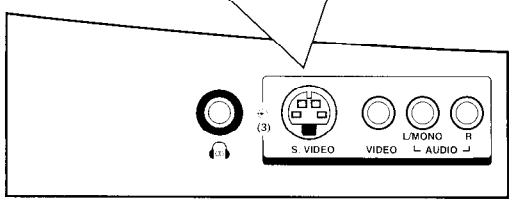
◀◀ for REWIND
▶▶ for FAST FORWARD
▶ for PLAY
■ for STOP
⏻ for STANDBY

Turning the TV on

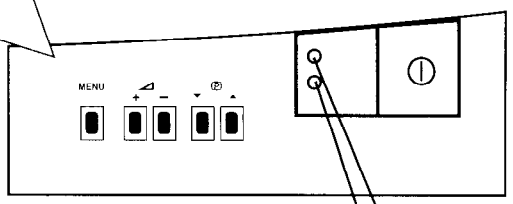
To conserve energy it is best to turn your TV off and not to leave it in standby.

Switching the power on:





Press right hand side of door to open



Press left hand side of door to open

Power on/off button

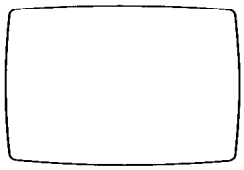
Power on indicator (red)

On timer indicator (green)

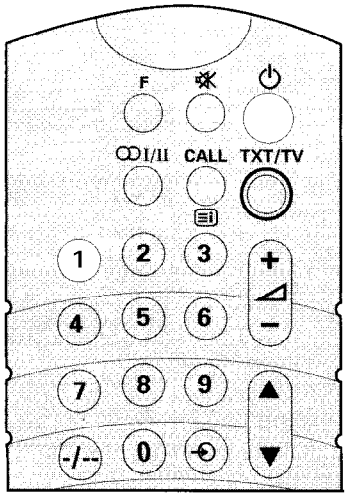
Switching on the TV

1 If the Power-On light is unlit, press the on/off button on the front of the TV to switch the set on.

The Power-On red light will glow.

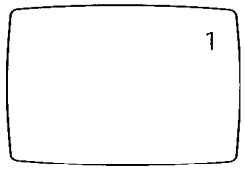


Switching on from standby:



Switching on from standby

1 Press button 1 on the remote control to turn the TV on from standby.



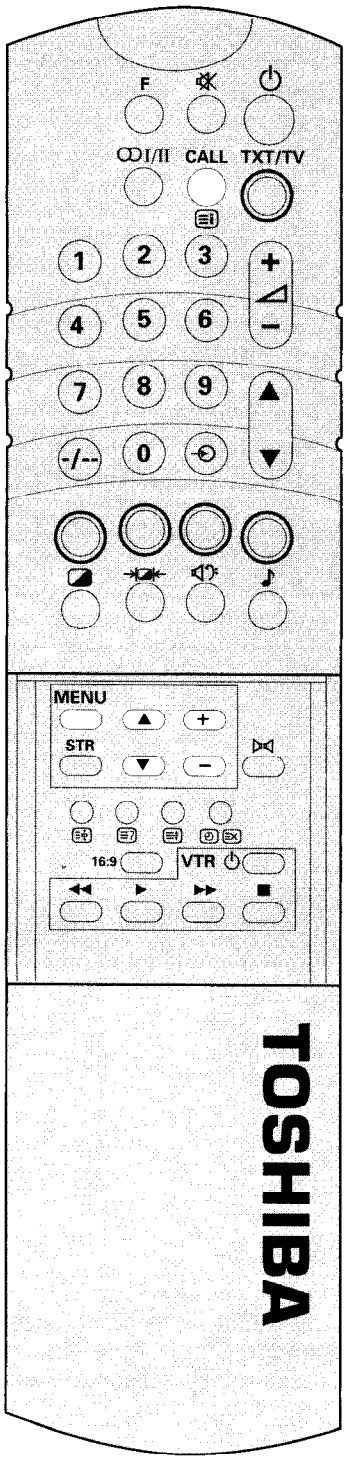
Standby Button ⏻:
This allows you to put the set into standby mode when leaving the TV unattended for short periods of time. To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control. The picture may take up to 6 seconds to appear.

How it works

This Owners Manual is divided into:
INFORMATION AND GUIDANCE ON THE LEFT | INSTRUCTIONS ON THE RIGHT

Selecting and adjusting Menu functions using the remote control:

The buttons you will need for each section are highlighted in white (see below).



Slide

Your new Toshiba TV has a menu system to help you select the various functions. Press the **MENU** button on the remote control unit to access the **Main menu**.

Menu displays will remain on screen for approximately 20 seconds.

If a display disappears, simply press the **MENU** button to bring back the **Main menu**.

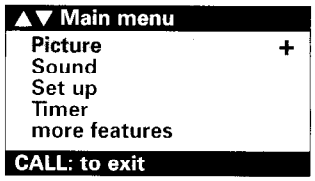
To cancel any display press the **CALL** button.

Highlighting a feature, enables you to ***adjust/alter*** it.
To ***highlight*** a feature press the ▲ button to ***move*** the bar up, or the ▼ button to ***move*** the bar down.
To ***select/adjust*** a feature press either the + (or −) button.

Selecting and adjusting Menu functions

1 Press the **MENU** button to access the **Main menu**.

2 Use the ▲ (or ▼) button to ***move*** the highlight bar up (or down) the menu.



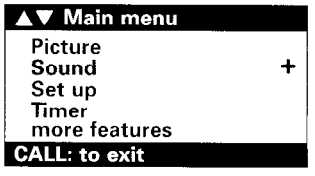
3 Use the + button to ***select*** or ***adjust*** the settings.

For example: To ***select*** **Balance** in the Sound menu.

---

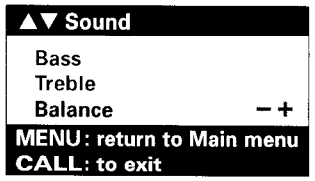
1 Press the **MENU** button to access the **Main menu**.

2 Use the ▲ (or ▼) button to ***highlight*** Sound.



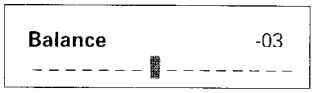
3 Press the + button to ***select*** the **Sound** menu.

Press the ▲ (or ▼) button to ***highlight*** Balance.



4 Press the + button to ***select*** the **Balance** display.

Press the + (or −) button to ***adjust*** the setting.

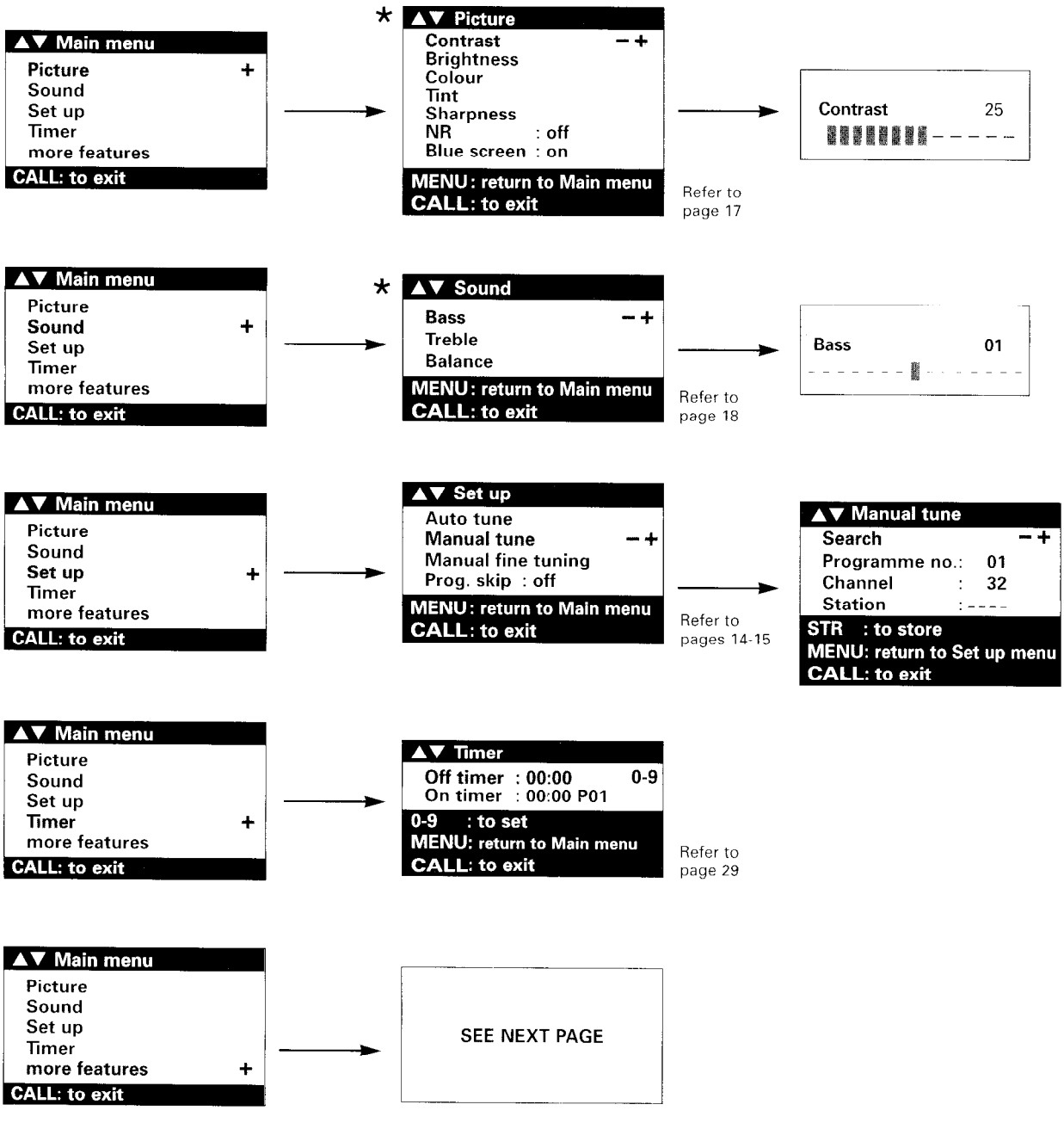


Menu displays

List of Main menu displays:

Menu displays will remain on screen for approximately 20 seconds. If a display disappears, simply press the **MENU** button to bring back the **Main menu**.

To cancel any display press the **CALL** button.

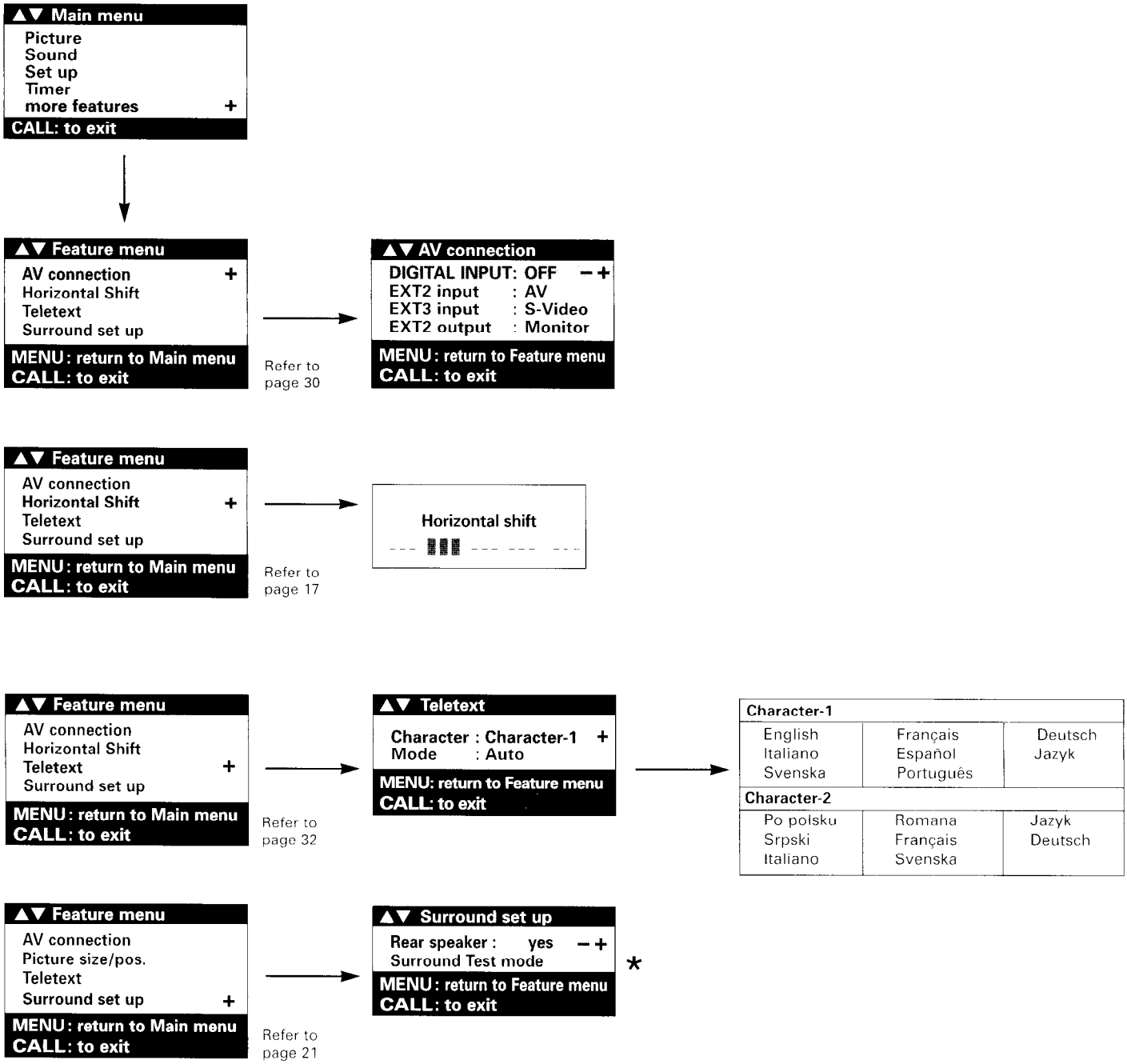


* This menu can be accessed by using the buttons on the front of the TV. Refer to page 35.

Menu displays

Press the **MENU** button to access the **Main menu**.
Press the ▲ (or ▼) button to ***move*** the highlight bar up (or down) the menu.
Press the + (or −) button to ***select*** or ***adjust*** the settings.

List of Feature menu displays:



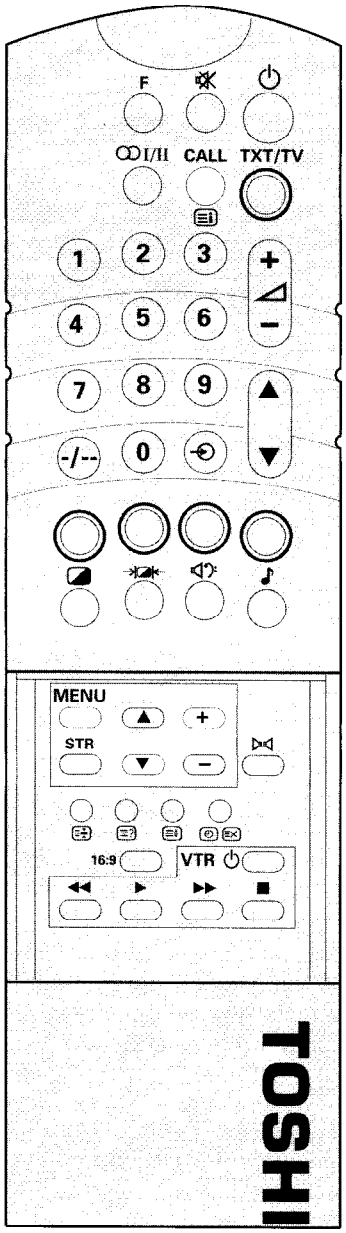
* Surround Test mode will only appear if the rear speaker is set to yes and the TV is in one of the three Dolby modes.

Auto tune

Due to the complicated map of TV transmitters we are unable to pre-tune all programme positions. The following simple steps will take you through the process, enabling you to allocate any TV station to any programme position.

Preparing to Auto tune:

The buttons you will need for each section are highlighted in white (see below).



Note: This TV has direct channel entry if the channel numbers are known.

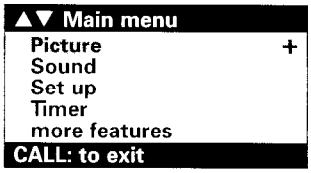
Select the screen in step 4 on page 14, enter the required programme position, then enter the appropriate channel number and press the **STR** button to memorise.

Menu displays will remain on screen for approximately 20 seconds. If a display disappears simply press the **MENU** button to bring back the **Main menu**.

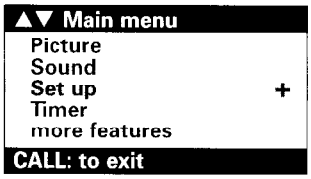
To cancel any display press the **CALL** button.

Note: The satellite receiver must be switched on and tuned to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

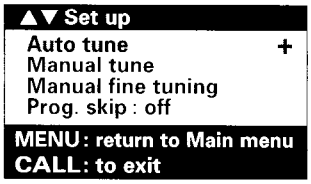
1 Press the **MENU** button to ***select*** the **Main menu**.



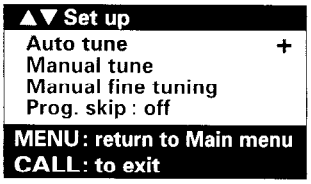
2 Press the ▼ button repeatedly to ***highlight*** Set up.



3 Press the + button to ***select*** the **Set up** menu.



4 Press the ▼ button repeatedly to ***highlight*** Auto tune.

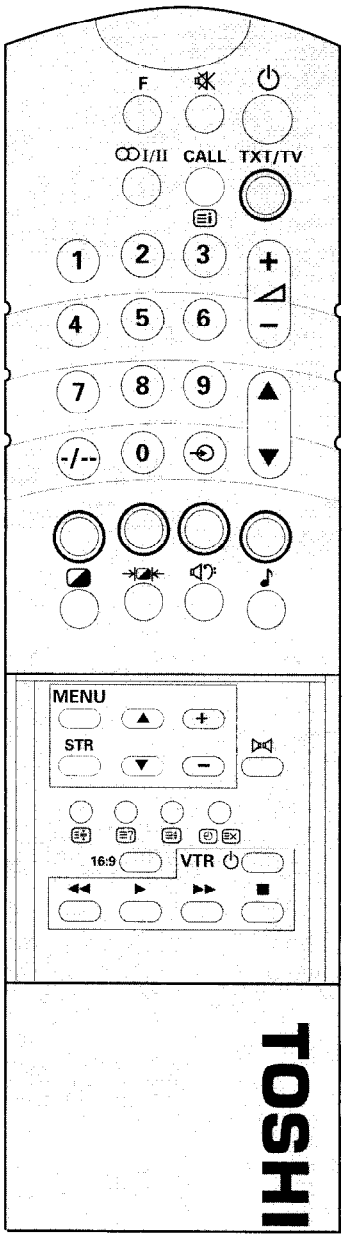


5 Press the + button to ***select*** the **Auto tune** display.

Auto tune (Continued)

To allocate a position for your video recorder use the Manual tune method as described on pages 15.

Auto tune:



DO NOT PRESS 🔇 OR ANY OTHER BUTTONS WHILST YOU ARE TUNING

1 Press the **STR** button to start the automatic search.

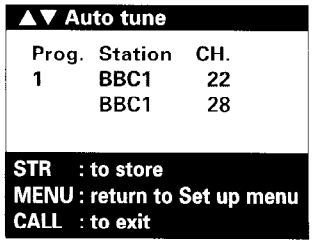
Allow the television to complete the search.

DO NOT PRESS ANY BUTTONS WHILST THE AUTOMATIC SEARCH IS IN PROGRESS.

If you make a mistake simply start again from the beginning. The channel number will change as the TV searches through the band (21-69). Each station will be displayed along with the station identifier.

(This takes approximately 3 minutes).

2 When the search is complete the television will display a list of all the BBC1 signals available. If there is a choice, press the ▲ (or ▼) buttons to scroll through and view the channels.



3 Select the channel you like best and press the **STR** button to STORE BBC1 to programme position 1. (**STR: to store** will highlight momentarily). Any BBC1 choices not stored will be displayed later should you wish to store them.

Note: You may only have one selection, but up to four selections could be displayed at any time.

Continued on page 13.

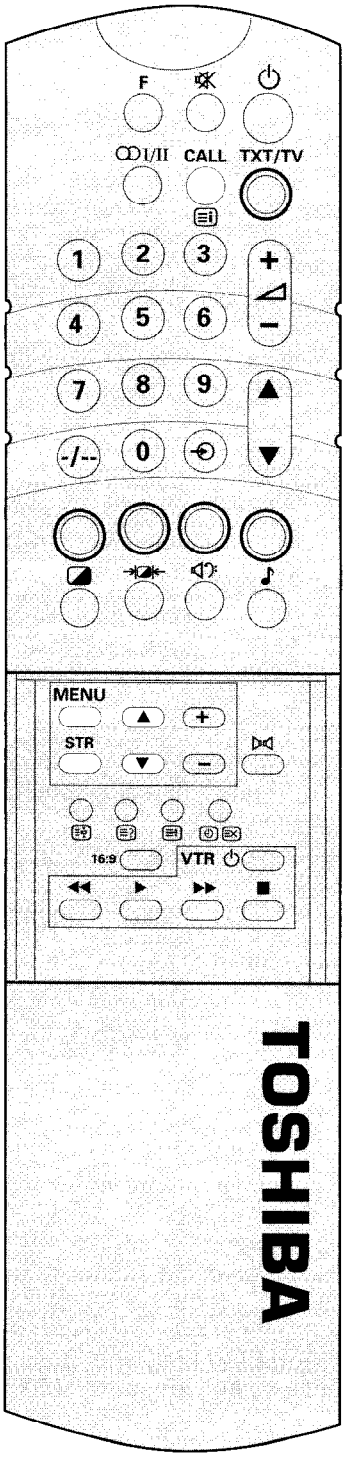
PROGRAMME POSITIONS FOR AUTO TUNE

PROGRAMME	STATION	DESCRIPTION
1	BBC1	BBC1
2	BBC2	BBC2
3	ITV	ITV
4	CH4	CHANNEL 4
5	CH5	CHANNEL 5
6	SAT	SATELLITE

Auto tune (Continued)

To allocate a position for your video recorder use the Manual tune method as described on pages 15.

Auto tune:



4 Programme 2 will appear showing the BBC2 choices. Repeat steps 2 and 3 to allocate the required signal for BBC2, ITV and Channel 4.

▲▼ Auto tune

Prog.	Station	CH.
2	BBC2	38
	BBC2	56

STR : to store
MENU : return to Set up menu
CALL : to exit

5 Programme 5 is allocated to Channel 5 although this may not be available in all areas. Press **STR** to continue this procedure.

Programme 6 is allocated to the satellite channel.

6 Programme 7 will display the remaining channels which have not yet been allocated.

Use the ▲ (or ▼) button to scroll through the list of available channels as each is highlighted the channel will be displayed.

▲▼ Auto tune

Prog.	Station	CH.
7	BBC1	28
	BBC2	66

STR : to store
MENU : return to Set up menu
CALL : to exit

7 Press **STR** to store the channel you require on programme position 7. When you have stored a channel it will no longer appear in the list for further selection. Repeat as required, or press **CALL** to exit.

YOU MAY NOW CONNECT SCART LEADS

It is not necessary to tune your television to your video. Simply connect the Scart leads, insert a tape and press play.

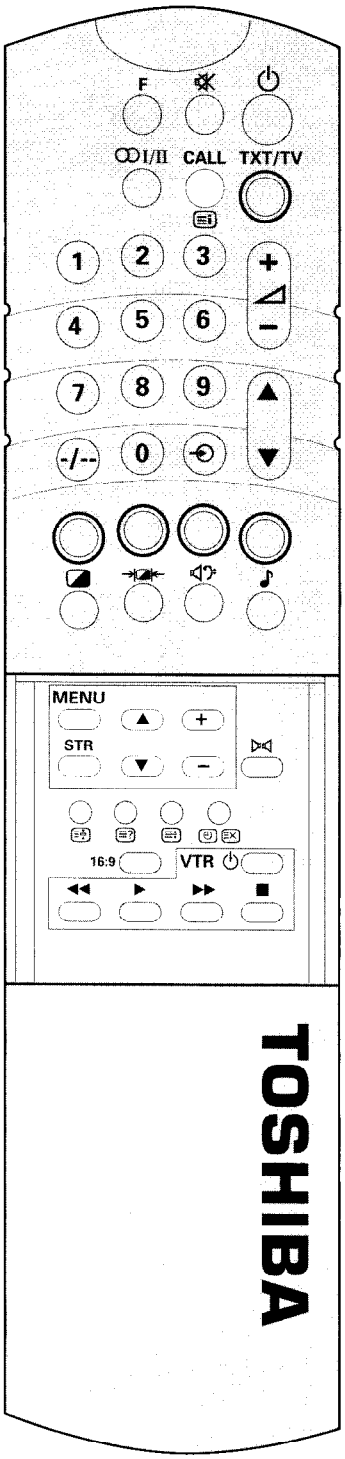
If you are unable to use Scart leads, or wish to allocate a programme position to the video refer to page 15 "Tuning to your video" using RF leads.

Tuning-in

Your Toshiba television may be tuned manually as an alternative to AUTO TUNE.

Manual tune:

Menu displays will remain on screen for approximately 20 seconds.



DO NOT PRESS ANY OTHER BUTTONS WHILST THE SET IS TUNING

1 With the **Main menu** showing, press the ▲ (or ▼) button repeatedly to ***highlight*** Set up.

Press the + button to ***select*** the **Set up** menu.

▲▼ Main menu
Picture
Sound
Set up +
Timer
more features
CALL: to exit

2 Press the ▲ (or ▼) button to ***highlight*** Manual tune.

Press the + button to ***select*** the **Manual tune** menu.

▲▼ Set up
Auto tune
Manual tune −+
Manual fine tuning
Prog. skip : off
MENU: return to Main menu
CALL: to exit

3 Press the ▲ (or ▼) button to ***highlight*** Search.

Press the + button to search up the band (>>>) or the − button to search down the band (<<<).

The >>> will flash and the TV will show the channel numbers whilst the TV is searching.

When a station/satellite is found it will be displayed.

▲▼ Manual tune
Search −+
Programme no.: 01
Channel : 32
Station : - - - -
STR : to store
MENU: return to Set up menu
CALL: to exit

▲▼ Manual tune
Search >>> −+
Programme no.: 01
Channel : 38
Station : - - - -
STR : to store
MENU: return to Set up menu
CALL: to exit

4 Press the ▲ (or ▼) button to ***highlight*** the Programme no.

Press + (or −) button to ***select*** the programme position number required.

▲▼ Manual tune
Search
Programme no.: 07 −+
Channel : 42
Station : - - - -
STR : to store
MENU: return to Set up menu
CALL: to exit

Press the **STR** button if you wish to store the broadcast displayed (**STR: to store** will highlight momentarily) or repeat from step 3 if you wish to continue searching.

The display will stay on screen for approx. 15 seconds. If you do not STORE the programme position it will not be held in memory.

Repeat the procedure for all the remaining programme positions you wish to tune, including the satellite.

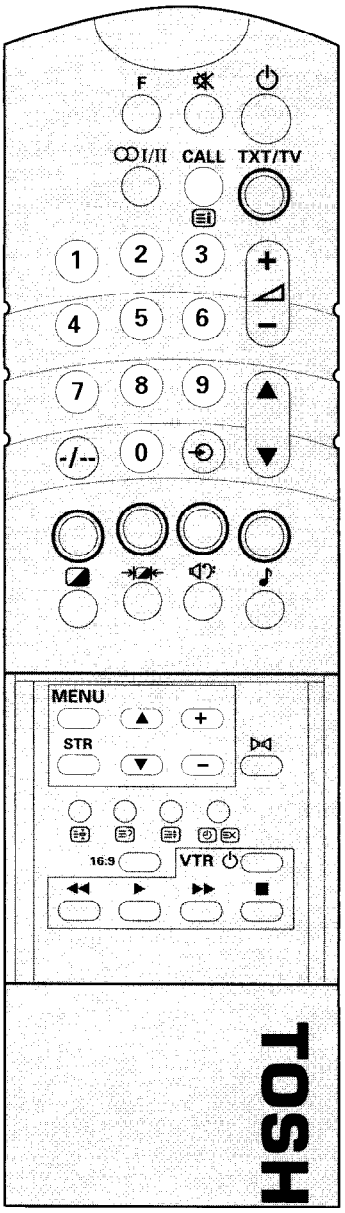
Press the **CALL** button to exit when you have finished.

YOU MAY NOW CONNECT YOUR SCART LEADS

Tuning-in (Continued)

If you cannot connect your TV to the video recorder using Scart leads you will need to allocate a programme position on the TV for the video recorder.

Tuning to your video recorder, Manual fine tuning, Programme Skip:



The Programme skip feature enables you to prevent certain programme positions from being viewed.
For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position and take the remote control with you. The TV will function normally, using the controls on the front of the TV but the set will not show the skipped programme position.

Tuning to your video recorder (connected via an RF lead)
To tune your television to your video recorder play a pre-recorded tape.

1 Follow steps 1 to 4 (Manual tune) as detailed on page 14.

When the video recorder is found, your pre-recorded tape will be displayed.

It is suggested that TV programme position 00 is used.

Don't forget to press **STR**.

▲▼ Manual tune
Search −+
Programme no.: 01
Channel : 32
Station : - - - -
STR : to store
MENU: return to Set up menu
CALL: to exit

▲▼ Manual tune
Search
Programme no.: 00 −+
Channel : 60
Station : - - - -
STR : to store
MENU: return to Set up menu
CALL: to exit

Manual Fine Tuning (Not normally required)
This will enable you to adjust the tuning manually to optimise the picture.

1 Press the **MENU** button to display the **Main menu**. Press the ▲ (or ▼) button to ***highlight*** Set up.

Press the + button to ***select*** the **Set up** menu.

2 Press the ▲ (or ▼) button to ***select*** **Manual fine tuning**.

Hold down the + button to fine tune up, or the − button to fine tune down.

This setting will be stored automatically.

▲▼ Main menu
Picture
Sound
Set up +
Timer
more features
CALL: to exit

▲▼ Set up
Auto tune
Manual tune
Manual fine tuning −+
Prog. skip : off
MENU: return to Main menu
CALL: to exit

To select Programme skip

1 Press a numbered button to select the programme position to be skipped. With the adjacent display showing, press the ▲ (or ▼) button to ***select*** **Prog. skip**.

2 To turn the Programme skip option on or off use the + (or −) button.

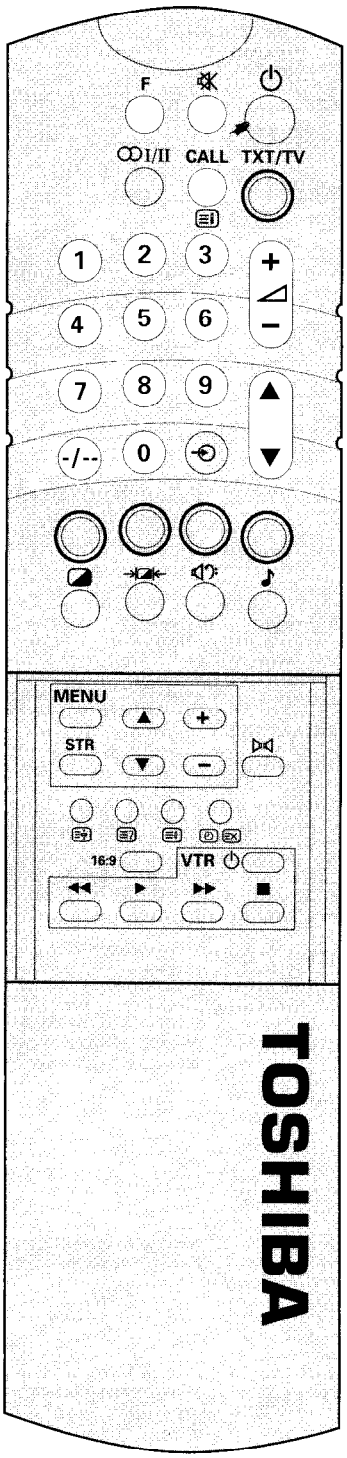
▲▼ Set up
Auto tune
Manual tune
Manual fine tuning
Prog. skip : off −+
MENU: return to Main menu
CALL: to exit

NOTE: A * will appear beside a skipped programme position when using the numbered buttons on the remote control.

Watching TV programmes

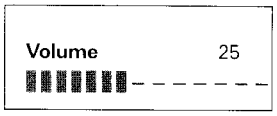
NOTE: To identify the current programme position press the **CALL** button. Press again to cancel the display.

Volume, Sound Mute, Changing programme positions using the remote control:



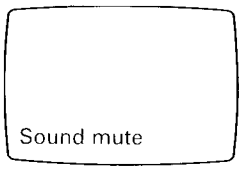
To alter the volume

1 To raise or lower the volume press the + or − button. The display will show the changes. Holding down the **F** button whilst altering the volume will increase the speed of adjustment.



To mute the sound

1 Press the button. The words **Sound mute** appear on the screen.

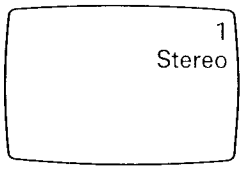


2 Press the button again to restore the sound.

To change programme position

1 To ***select*** a programme position press one of the numbered buttons.

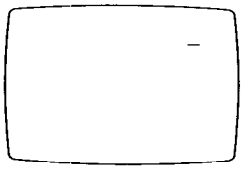
The programme position will be displayed in the top right corner of the screen together with the stereo/mono indicator.



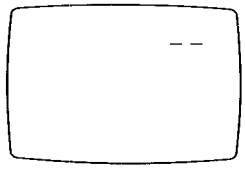
2 Alternatively you can change the programme position by using the adjacent button.

▲
▼

1 For programme positions below 10, press the -/-- button to select –. Enter the desired programme position number using the numbered buttons on the remote control.



2 For programme positions above 9, press the -/-- button to select – –. Enter the desired 2 digit programme position number (10-99).

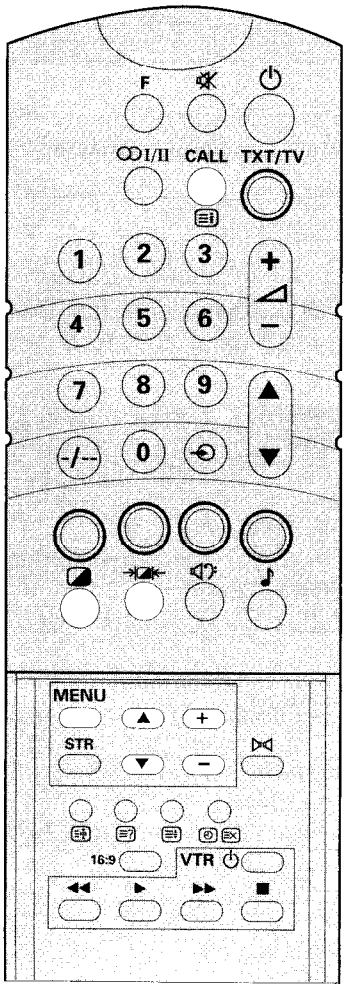


Picture adjustment

Picture adjustment:

There are four picture styles to choose from, designed to suit your particular taste.

The digital effect decreases from picture style →◪←1 down to style →◪←3. ie should you require high levels of contrast but a low digital effect you can choose picture style →◪←3 and then increase contrast. These settings are stored as →◪←M.

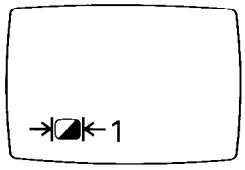


The tint may only be adjusted on a tape which has been recorded & played back on an NTSC video recorder, when in AUTO colour mode as described on page 31.

Selectable picture allows you to change the contrast at the touch of a button.

To select the alternative picture styles

1 Press the →◪← button repeatedly to view the different picture styles available.

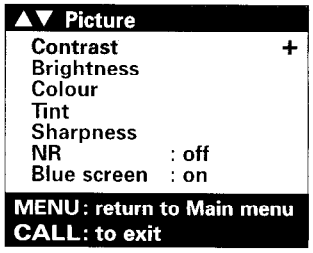


The memory →◪←M will contain your own selection of Contrast, Brightness, Colour, (Tint) and Sharpness as set out below.

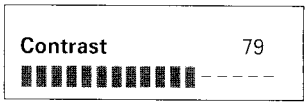
Contrast, Brightness, Colour, Tint and Sharpness Adjustment

1 Press the ◪ button to ***select*** the **Picture** menu.*

Press the ▲ (or ▼) button repeatedly to ***select*** between the Contrast, Brightness, Colour, Tint and Sharpness.



2 Use the + (or −) buttons to ***adjust*** the settings.



* This menu can also be accessed by using the buttons on the front of the TV.

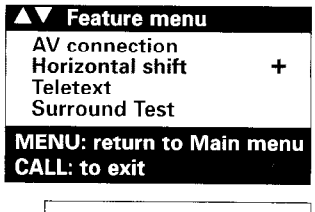
Horizontal shift

This is factory set and should need little or no adjustment, however, if when viewing text or using a computer the display is to one side, adjustment to a central position can be made.

1 With the adjacent menu showing, press the ▲ (or ▼) button to ***highlight*** Horizontal shift.

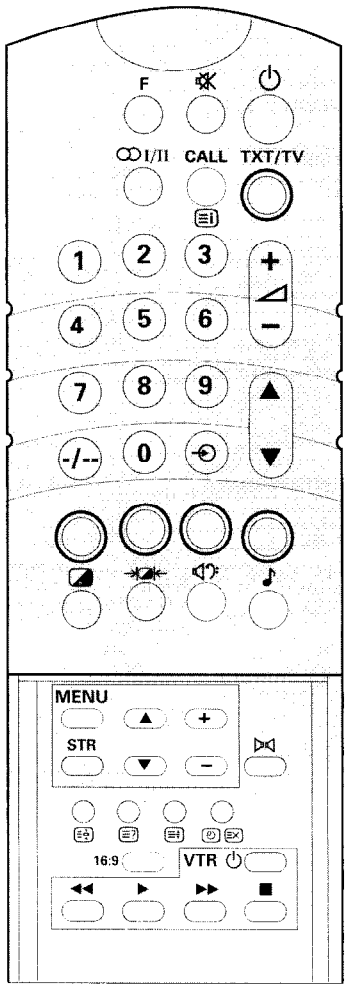
Press the + button to ***select*** Horizontal shift.

Press the + (or −) button to ***adjust***.



Sound adjustment, Super Woofer, 16:9 – Aspect ratio

Bass, Treble and Balance Adjustments, Super Woofer, 16:9 – Aspect ratio



Most feature films are shot in wide screen (16:9) format, which is then compressed at the studio. With the growth of digital broadcasts, more and more films will be broadcast in Wide Screen format.

If you view a Wide Screen broadcast in Normal (4:3) mode the aspect ratio (height compared to width) will be incorrect.

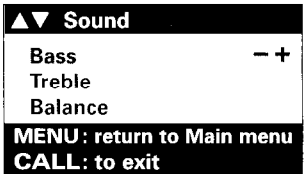
The aspect ratio of the transmission can be corrected by a feature known as picture compression. When viewing a transmission in this mode the images on the screen are restored to their normal proportions. Black bars will appear at the top and bottom of the screen.

NOTE: There could be interference lines outside the viewing area, this is normal.

Bass, Treble and Balance Adjustments

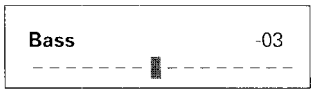
1 Press the ♪ button to ***select*** the **Sound** menu.*

Press the ▲ (or ▼) button repeatedly to ***select*** Bass, Treble or Balance.



For example: Bass. Press the + button to ***select*** the **Bass** display.

2 Use the + (or −) button to ***adjust*** the setting.

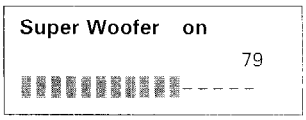


* This menu can also be accessed by using the buttons on the front of the TV.

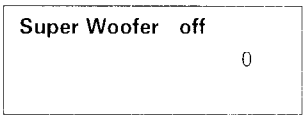
To select Super Woofer

A Super Woofer has been built into your new Toshiba television which will add a greater depth to the sound.

1 Press the 🔊 button to ***select*** **Super Woofer 'on'**. Press again to turn it 'off'.

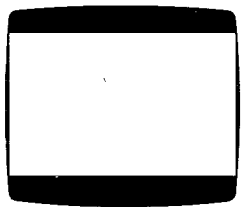


2 Press the + (or −) button to adjust the Super Woofer level.



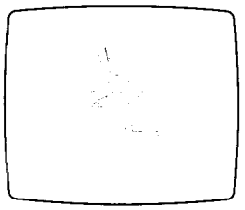
16:9 – Aspect Ratio

This feature has been included for programmes which are transmitted in the wide screen format.



To alter aspect ratio

1 Press the 16:9 button in the concealed portion of the remote control to view wide format broadcasts.



2 By pressing the 16:9 button the aspect ratio is altered and the images are restored to their normal proportions.

To revert to normal 4:3 format, simply press the 16:9 button again.

Stereo or bilingual broadcasts

This TV set is designed to receive and automatically detect all NICAM and dual language transmissions.
The following describes the operation and displays which accompany these broadcasts.

Stereo/bilingual modes:

If Nicam or dual language broadcasts are transmitted the word Stereo or Dual will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in stereo. If the broadcast is not in stereo the word Mono will appear.

Some common problems with Nicam reception:

The word Stereo does not appear on screen:

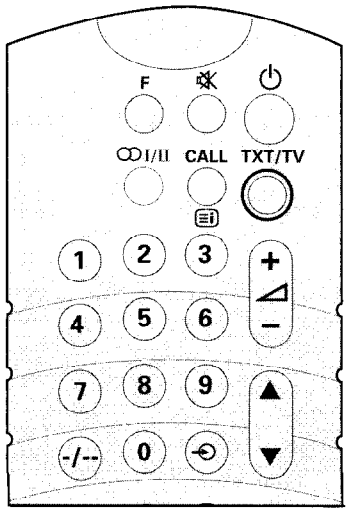
1 It is not a stereo transmission.
2 Your local transmitter has not been upgraded for Nicam.

Stereo appears but sound is in Mono

1 You have selected Mono mode.
2 The original soundtrack of the film etc. was recorded in Mono.
3 The programme is being broadcast with identical sound in left and right channels.

Note: For stereo and dual language information refer to a TV programme magazine or the text pages for your area.

If transmission is in Mono the ⌀I/II button has no effect.

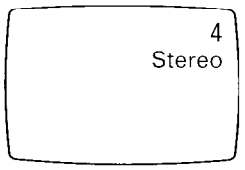


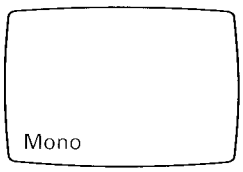
To select stereo/mono mode

1 ***Select*** the required programme position.

2 Press the ⌀I/II button repeatedly, to ***select*** between Stereo and Mono.

(NICAM broadcasts can be in either Stereo or Mono.)



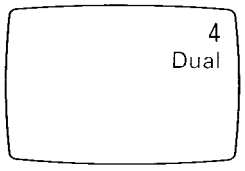


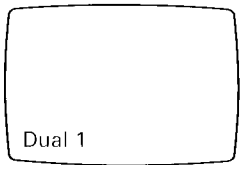
Bilingual transmissions are rare. If bilingual broadcasts are transmitted the word Dual will be displayed.

To select bilingual mode (when transmitted)

1 If the word Dual appears when you ***select*** your programme position.

2 Press the ⌀I/II button to ***select*** between the different options.





Dolby Digital

Dolby Digital:

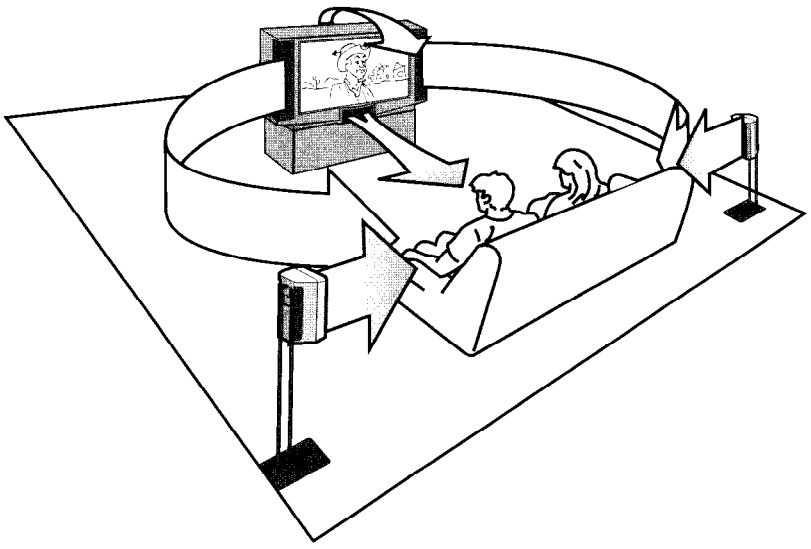
The future of Home Cinema from the creators of Home Cinema.

Dolby Surround added a new dimension to watching films at home. Dolby Pro Logic brought the films to life. Dolby Digital now goes one step further.

Now with 5 fully independent sound channels – Left, Centre, Right, Independent Rear Right and Independent Rear Left Surround, plus a separate bass (Super Woofer). Dolby Digital offers you the same sound experience as you would find in the cinema – but from *your* TV in *your* home. With the numbers of titles increasing many films are now available in DVD or Laserdisk* formats.

The result is, true stereo surround effects are delivered, giving a greater sense of sound depth, true sound positioning and an increase in overall realism.

When you first turn on, your new Toshiba – Dolby Digital TV will be fully capable of receiving and decoding Dolby Pro Logic broadcasts.



Dolby Digital, however, requires a Dolby Digital sound source, such as is provided by Digital Video Disk players (DVD). When connecting a DVD or Laserdisk, set the DIGITAL INPUT to EXT1, EXT2 or EXT3 (as described on page 30 'AV connection').

When you play back a Dolby Digital source, the TV will automatically identify the type i.e. Dolby Pro Logic, Dolby Surround, Normal Stereo etc. and recognise the speaker requirements accordingly.

All that is left for you to do is to adjust the speaker levels if required, relax and enjoy the realism delivered by your Toshiba Dolby Digital TV.

*** The Dolby Digital output from a Laserdisk player must be demodulated to make a pure digital bitstream, before connecting to the TV.**

Dolby Digital

Before you can get the full effects of Dolby Digital, Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers.

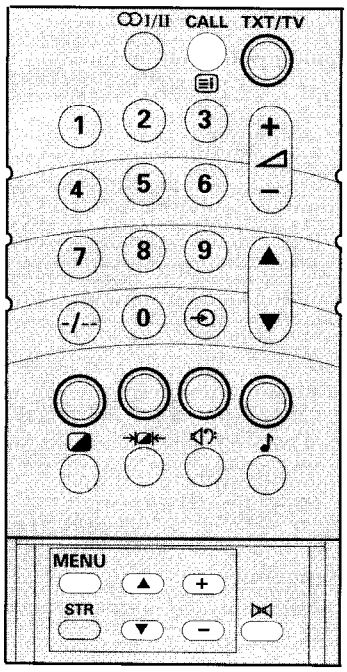
Dolby Digital:

When you connect a Dolby Digital source, such as a DVD player, the TV will automatically detect the type of signal.

For example: If the DVD playing is recorded in full Dolby Digital i.e. 5 channel stereo (front left, centre, front right, rear left and rear right) the TV will detect all 5 channels.

When the Surround Test mode is run the TV will play white noise through all 5 channels.

Front left and Front right are only adjustable in the Balance section of the Sound menu.



Dolby Digital:

1/0 = Centre speaker only.
2/0 = Front Left and Front Right only.
2/1 = Front Left and Front Right + Rear Left and Rear Right combined.
2/2 = Front Left and Front Right + Independent Rear Left and Independent Rear Right.
3/0 = Front Left and Front Right and Centre. No Rear speakers.
3/1 = Front Left and Front Right and Centre + Rear Left and Rear Right combined.
3/2 = Front Left and Front Right and Centre + Independent Rear Left and Independent Rear Right.

1 With the **Feature menu** showing, press the ▲ (or ▼) button to ***highlight*** Surround set up.

Press the + button to ***select*** the **Surround set up** menu.

▲▼ Feature menu
AV connection
Horizontal shift
Teletext
Surround set up +
MENU: return to Main menu
CALL: to exit

2 Press the ▲ (or ▼) button to ***highlight*** Rear speaker.

Press the + (or −) button to ***select*** between –

Rear speaker: no and

Rear speaker: yes.

▲▼ Surround set up
Rear speaker : no −+
Surround test mode
MENU: return to Feature menu
CALL: to exit

▲▼ Surround set up
Rear speaker : yes −+
Surround test mode
MENU: return to Feature menu
CALL: to exit

To adjust the speaker levels

1 Play back a Dolby Digital source e.g. a DVD and press the ⋈ (Dolby Surround) button on the TV remote control.

The title on the screen (i.e. Dolby Digital 3/2) is not adjustable, it is only an indication of the channels available from your current sound source (see table).

▲▼ Dolby Digital
Dolby Digital : 3/2
Centre −+
Rear right
Rear left
CALL: to exit

2 To ***adjust*** the levels press either the + (or −) button whilst highlighted. The number of adjustable speakers will depend upon the signal received from the DVD player.

To cancel the test press the **CALL** button.

Alternatively:

Adjust the levels using the test routine described on page 27, steps 5 to 7.

Note: if the DVD playing is recorded in Dolby Pro Logic, i.e. 4 channel stereo (front left, front right, centre and rear) the TV will detect the 4 channels.

In this instance, when the Surround Test mode is run the TV will cycle through the four channels in use.

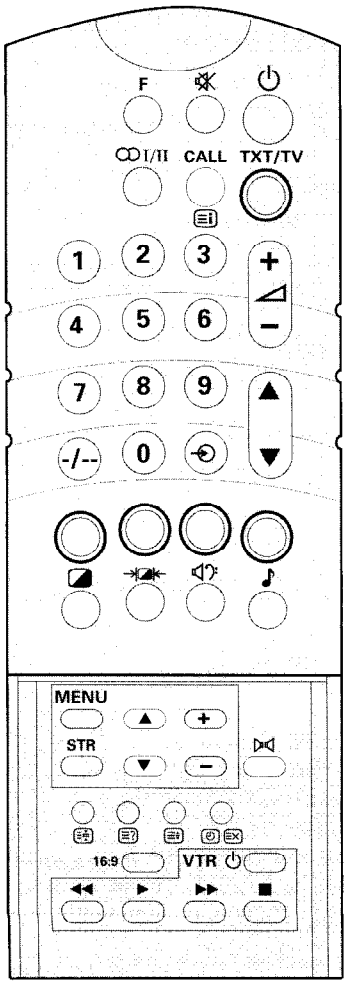
Surround effect selection

With Toshiba's 'Digital Surround processor' and Dolby Pro Logic Surround your television can simulate a wide range of various surroundings: From Dolby Pro Logic Surround and Dolby 3 Stereo to Hall, Theatre, Disco, Stadium and Pseudo surround.

Dolby Digital:

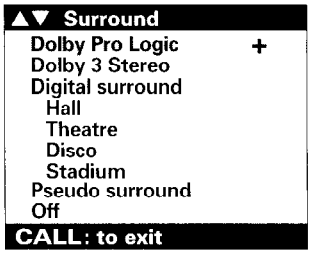
Toshiba's TV's with Dolby Pro Logic Surround use a combination of speakers (front-left, front-right, centre and two rear speakers) to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

With Toshiba's Digital surround processor, various effects are available to simulate a wide range of listening environments using the surround speakers. Whatever you are watching, it's easy to choose the sound mode that will make you feel as if you are right there in the concert hall, movie theatre, disco or stadium and even mono soundtracks can be enhanced when in pseudo mode.

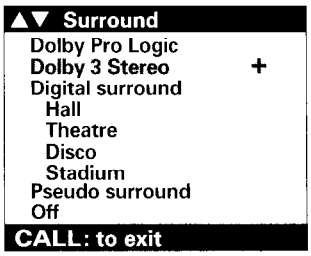


1 Press the button to ***select*** the **Surround** menu. Press the (or) button to ***select*** between the modes available.

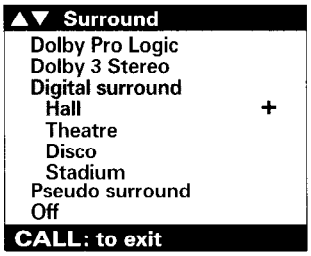
Dolby Pro Logic*



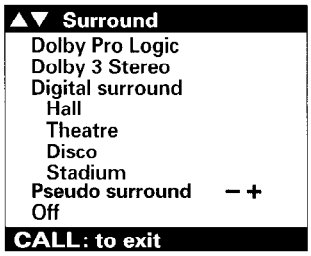
Dolby 3 Stereo



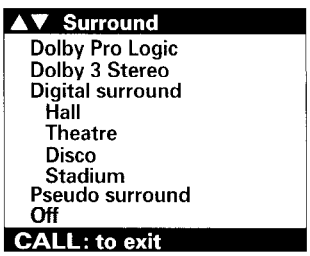
Digital surround
Hall OR
Theatre OR
Disco OR
Stadium



Pseudo surround



Off (Surround Sound off, normal stereo).

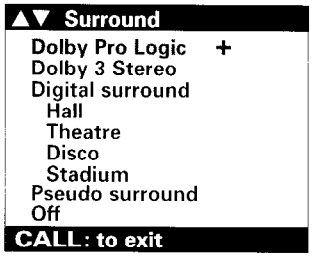


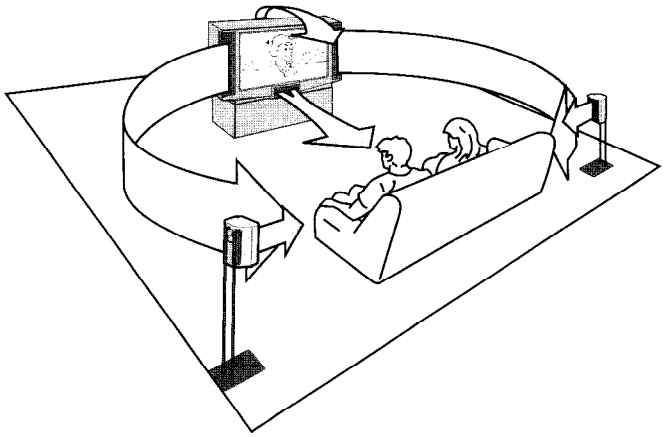
* Only available when **Rear speaker: yes** is selected.

Dolby Pro Logic and Dolby 3 Stereo

The illustrations below show the sound effects available from these two modes, and the speakers used.

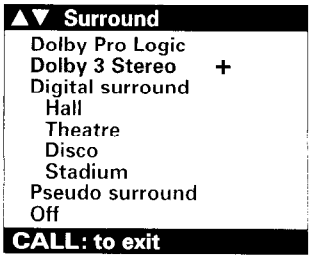
Dolby Pro Logic:

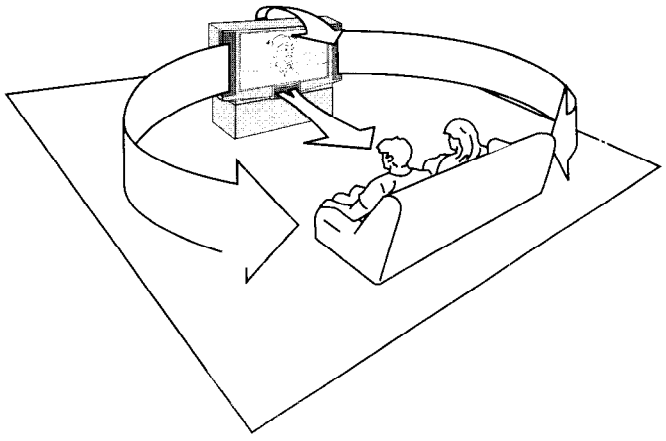




Dolby Pro Logic uses a combination of 6 speakers - front-left, centre, front-right, two rear speakers and Super Woofer to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

Dolby 3 Stereo:



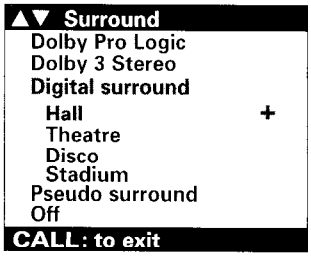


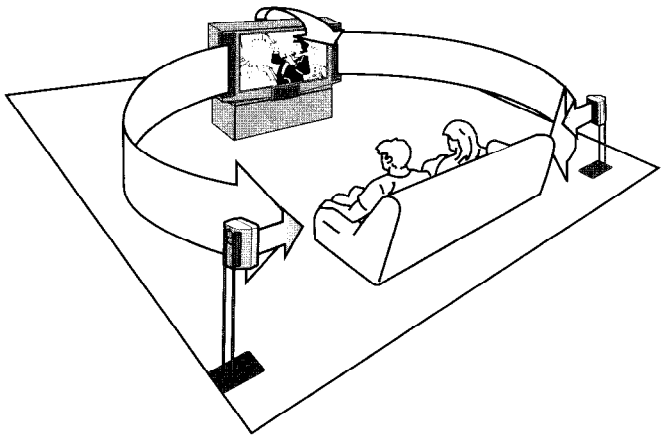
Dolby 3 Stereo uses a combination of 4 speakers - front-left, centre, front-right and Super Woofer. If you choose not to use the rear speakers, this mode will produce a strong, wide stereo surround effect.

Digital surround processor

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. The Digital Surround mode works equally well with either internal or external speakers connected. All of the Digital surround modes are adjustable, the method of adjustment described on page 28 is the same for all the Digital Surround effects.

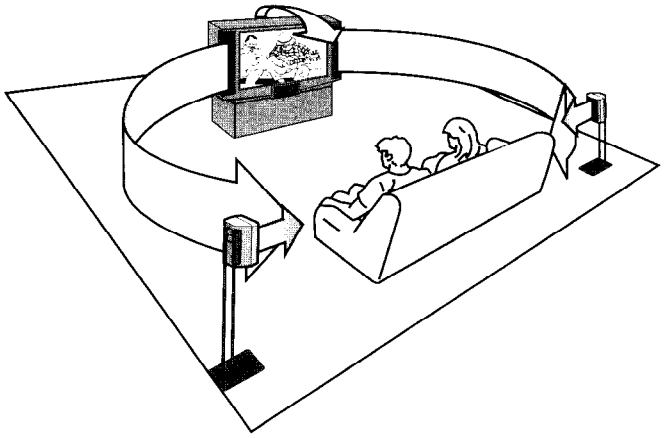
Surround Sound: Hall





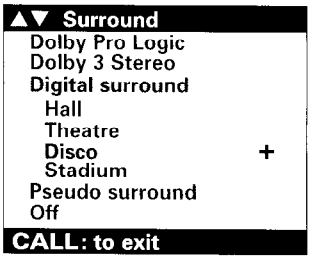
Surround Sound: Hall uses a combination of 5 speakers - front-left, front-right, two rear speakers and Super Woofer to reproduce in the living room the surround effects similar to those experienced in a large concert hall.

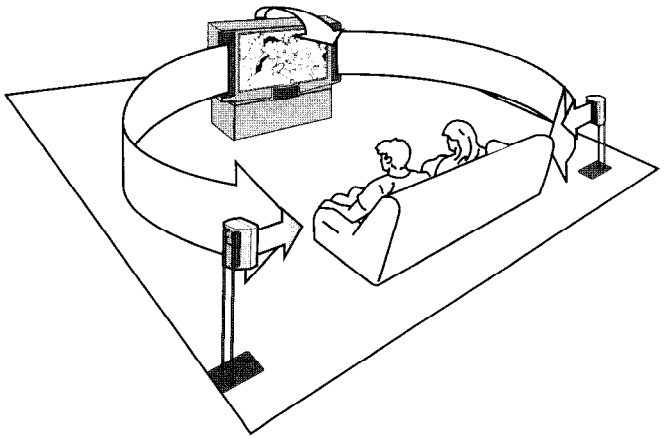
Surround Sound: Theatre



Surround Sound: Theatre uses a combination of 5 speakers - front-left, front-right, two rear speakers and Super Woofer to reproduce the surround effects similar to those experienced in a movie theatre filled with a rich warm sound. Ideal for movies with stereo sound.

Surround Sound: Disco



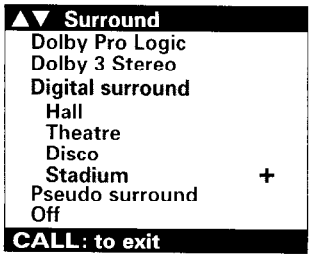


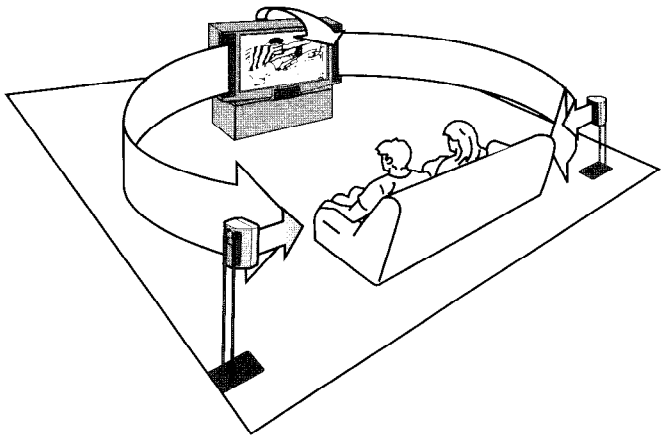
Surround Sound: Disco uses a combination of 5 speakers - front-left, front-right, two rear speakers and Super Woofer to create the atmosphere of a room so full of music that it seems to engulf the listener. An ideal sound mode for listening to pop videos.

Digital surround processor

Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. The Digital Surround mode works equally well with either internal or external speakers connected. All of the Digital surround modes are adjustable, the method of adjustment described on page 28 is the same for all the Digital Surround effects.

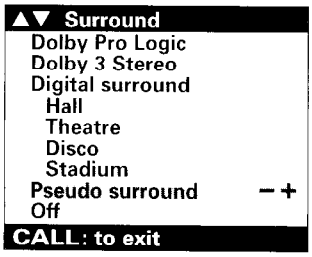
Surround Sound: Stadium

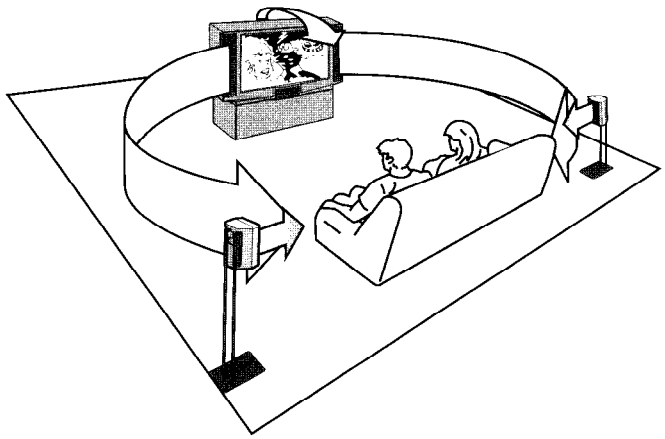




Surround Sound: Stadium uses a combination of 5 speakers - front-left, front-right, two rear speakers and Super Woofer to reproduce the surround effects similar to those experienced in a large football or baseball stadium packed for a live game.

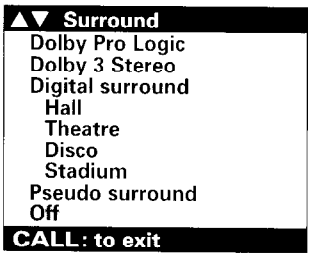
Surround Sound: Pseudo

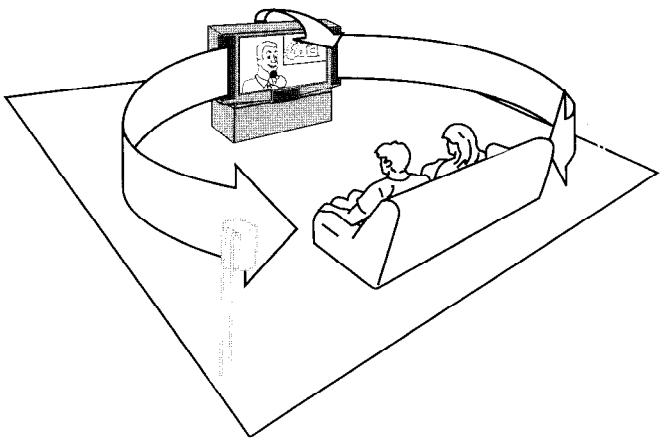




Surround Sound: Pseudo uses a combination of 5 speakers - front-left, front-right, two rear speakers and Super Woofer to create a synthetic sound effect for movies and TV shows recorded in mono.

Surround Sound: Off





Surround Sound: Off uses only the front left and right speakers and Super Woofer. This mode can be selected for watching news broadcasts and the like which require no special sound features.

Dolby Pro Logic Surround

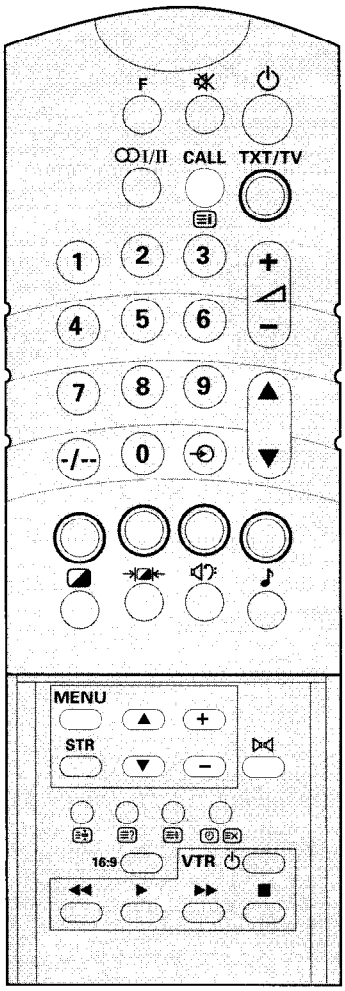
The realistic sound of the cinema is now available from your Toshiba television. This amazing 3 dimensional sound effect is available from any video and laser disk recorded in Dolby Surround and from an increasing number of TV broadcasts; **bear in mind that you need a stereo video recorder, connected via the Scart lead provided, to obtain the effect from a video tape which is recorded in Dolby Surround.**

Dolby Pro Logic Surround and Dolby 3 Stereo:

Part of the excitement of a great film in the cinema often comes from the soundtrack. Hearing thunder rumble round the auditorium, or being surrounded by the atmospheric sounds of the jungle can make all the difference to the extent that we are drawn into a film.

These effects are usually created in the cinema by Dolby Stereo, a unique sound recording system which adds depth and sensitivity to a stereo sound track by projecting a surround track behind and around the audience.

This surround track has now been used on many films, most of which are now available on video. It is also broadcast as part of the signal when TV companies show these feature films in Nicam stereo. But until now, ordinary TV's were unable to 'unlock' this track and play it back around and behind the viewer.

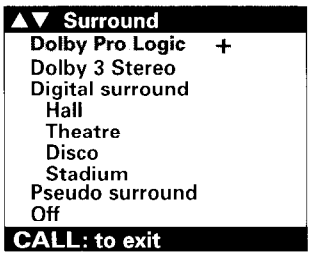


Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby Digital or Surround effects available when using headphones.

Before you can get the full effects of Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers (See page 21).

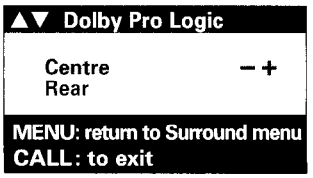
To select Dolby Pro Logic Surround

1 Press the ⋈ button to ***select*** the **Surround** menu. Press the ▲ (or ▼) button to ***select*** **Dolby Pro Logic**.

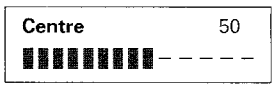


2 Press the + button to bring up the levels menu.

Press the + (or −) button to adjust the levels.

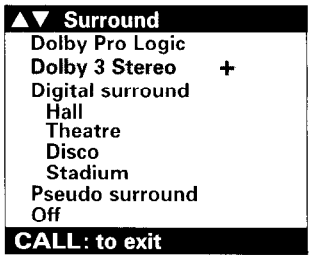


Alternatively, set the levels using the test routine described on page 27.

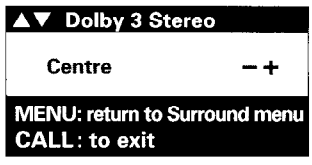


To select Dolby 3 Stereo

1 Press the ⋈ button to ***select*** the Surround menu. Press the ▲ (or ▼) button to ***select*** **Dolby 3 Stereo**. Press the + button to view the level set.



2 Alternatively, ***adjust*** the level using the test routine described on page 27.



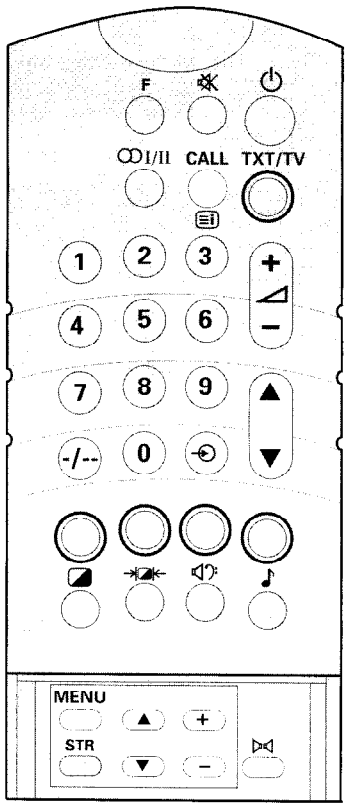
Dolby Surround level settings

When running the following Test sequences ensure that you are seated where you would normally watch the TV. These Test sequences are designed to let you balance all the speakers to the same volume level. The method of adjustment described below is the same for all the Dolby Surround effects. The viewing position is important to gain the maximum effect from this TV.

Dolby Test mode:

In order to get the best sound response from your new Toshiba TV we strongly recommend that adjustments should be made only whilst running the Test menu. The Test will play a 'white noise' through each of the speakers in turn. The display will show you which speaker is in play, adjustment to the speaker levels may be made whilst it is highlighted on the screen.

Note: To adjust the front left and right balance see page 18. Once the levels have been set they will need little or no adjustment.



Note: Surround Test mode will only appear in the Surround set up menu when a Dolby mode is selected.

As soon as you connect a DVD player Dolby Digital will become available.

Before you can get the full effects of Dolby Pro Logic and Surround effects, you must check that the TV is set-up to play sound through the Rear speakers (See page 21).

To select Dolby Test mode

1 Press the ⋈ button to bring up the **Surround** menu. Press the ▲ (or ▼) button to ***select*** the mode required.

▲▼ Surround
Dolby Pro Logic +
Dolby 3 Stereo
Digital surround
Hall
Theatre
Disco
Stadium
Pseudo surround
Off
CALL: to exit

2 Press the **MENU** button to ***select*** the **Main menu**. Using the ▲ (or ▼) button, ***highlight*** more features.

▲▼ Main menu
Picture
Sound
Set up
Timer
more features +
CALL: to exit

3 Press the + button to ***select*** the **Feature menu**.

4 Press the ▲ (or ▼) button to ***highlight*** Surround set up.

Press the + button to ***select*** **Surround set up**.

▲▼ Feature menu
AV connection
Picture size/pos.
Teletext
Surround set up +
MENU: return to Main menu
CALL: to exit

5 Press the ▲ (or ▼) button to ***highlight*** Surround Test mode.

Press the + button to ***select*** **Surround Test mode**.

If Dolby Digital is available press the ▲ (or ▼) button to ***select*** Dolby Pro Logic.

▲▼ Surround set up
Rear speaker : yes
Surround Test mode +
MENU: return to Feature menu
CALL: to exit

▲▼ Surround Test mode
Dolby Pro Logic +
MENU: return to Set up menu
CALL: to exit

6 Press the + button to ***start*** the Surround Test. ***Adjust*** the Centre and Rear levels to match the Front Left and Right by pressing the + (or −) button whilst the relevant display is highlighted.

▲▼ Surround Test
Dolby Pro Logic
Left
Centre −+
Right
Rear
MENU: To stop test and return to Surround Test mode
CALL: to exit

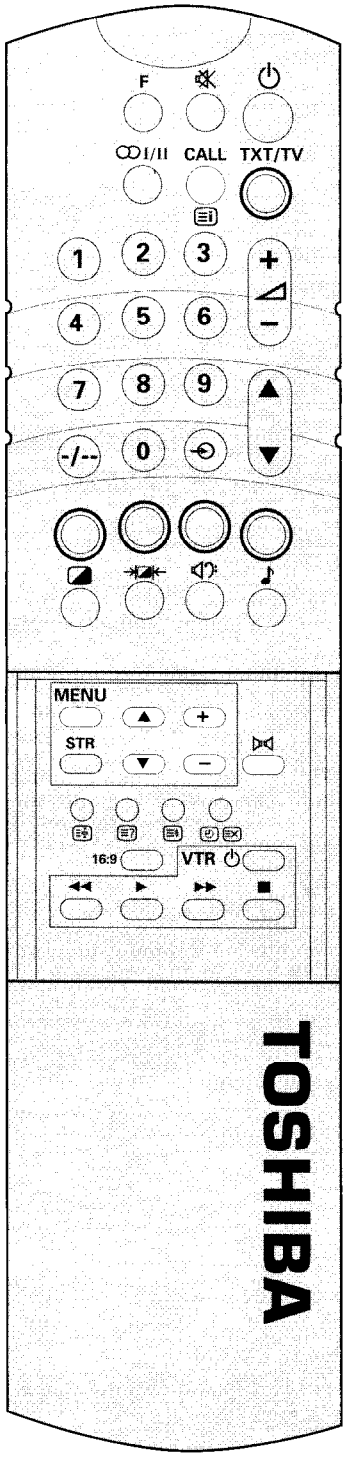
7 To end the Test press the **CALL** button.

The settings are automatically stored for each mode.

Digital Surround effect level settings

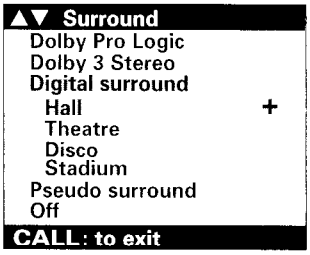
Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment described below is the same for all the Digital Surround effects.

Digital Surround settings:

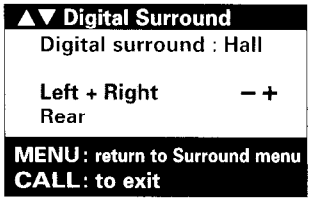


To select the Digital Surround Test mode

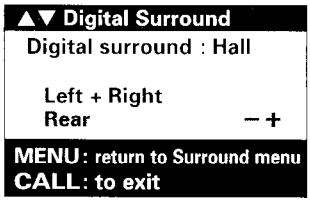
1 Press the ⋈ button to bring up the **Surround** menu. Press the ▲ (or ▼) button to ***select*** the **Digital surround** mode required.



2 Press the + button to ***select*** the Digital Surround adjustment menu.



3 Use the ▲ (or ▼) button to ***move*** the highlight bar. ***Adjust*** the Rear levels to match the Front Left and Right by pressing the + (or –) button whilst the relevant display is highlighted.



4 To end the TEST press the **CALL** button.

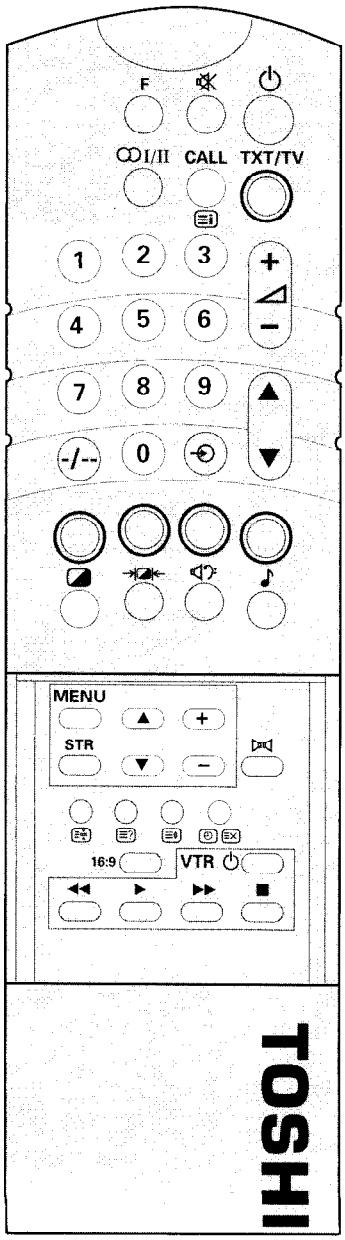
Note: This procedure can be repeated for each of the Surround modes. i.e. Hall, Theatre, Disco and Stadium.

The settings are automatically stored for each mode.

Timer, Noise reduction, Blue screen, Time Display

Timer:

The Timer is especially useful if you want the television to turn itself on or off after a selected period of time. For example: If you want the set to turn itself on in 30 minutes time and watch programme 3 simply follow the procedure indicated. Activation of the Timer is indicated by the green "on-timer indicator" on the front of the TV (see page 7).



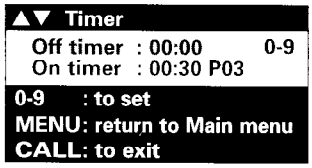
To select the Timer menu

1 Press the **MENU** button to display the **Main menu**.

Press the ▲ (or ▼) button repeatedly to ***highlight*** Timer.

2 Press the + button to display the **Timer** menu.

Use the numbered buttons to set the ON or OFF delay time, e.g. On in 30 minutes and programme 3 selected.



Note: When setting the ON time you will be required to enter the selected programme position. The set must then be put into standby mode (see page 7).
The maximum time delay is 12 hrs 59 mins.

Noise Reduction (NR), Blue Screen:

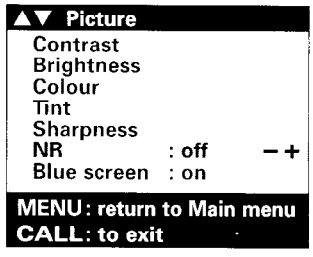
The Noise Reduction (NR) feature can improve the picture quality of a weaker signal.

The Blue Screen control instructs the television set to mute the sound and switch the screen to blue when no signal is being received and will switch to standby after approximately 20 minutes.

To select Noise Reduction (NR) and Blue Screen

1 Press the ◪ button to bring up the adjacent menu.

Press the ▲ (or ▼) button to ***select*** **NR** or **Blue screen**.

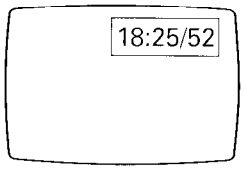


2 To turn on (or off) press the + (or −) button.

Time display:

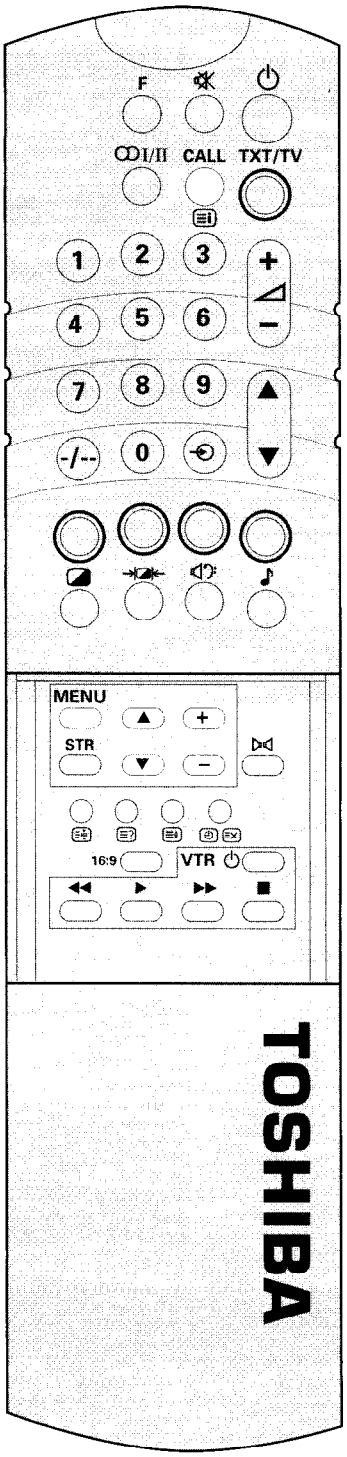
To select the Time display

If you press the ⏲ button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen. (which remains on screen for approximately 5 seconds) ie 6.25 and 52 seconds p.m.



AV connections, Digital Input

AV connections, Digital Input:



To select Digital Input

If you have connected a Digital Video Disk Player you will need to set the DIGITAL INPUT to whichever input socket you have used, so that the TV recognises the digital input.

1 With the adjacent menu showing. Press the ▲ (or ▼) button to ***highlight*** AV connection, press the + to ***select*** the **AV connection** menu.

▲▼Feature menu
AV connection +
Horizontal shift
Teletext
Surround set up
MENU: return to Main menu
CALL: to exit

2 Press the ▲ (or ▼) button to ***highlight*** DIGITAL INPUT, press the + (or −) button to ***select*** between EXT1, EXT2 or EXT3 depending upon which input you have connected your DVD.

▲▼ AV connection
DIGITAL INPUT: EXT3 −+
EXT2 input : AV
EXT3 input : S-Video
EXT2 output : Monitor
MENU: return to Feature menu
CALL: to exit

To select input signal for Scart 2 and Scart 3

This feature allows you to select the type of video recorder to be connected to Scarts 2 or 3 on the back of the television. The S-Video enables the television to receive from S-VHS video recorders or DVD players, the AV enables the television to receive from standard video recorders.

1 Press the ▲ (or ▼) button to ***highlight*** the required external input, press the + (or −) to ***select*** the required input (AV or S-Video).

▲▼ AV connection
DIGITAL INPUT: EXT2
EXT2 input : AV −+
EXT3 input : S-Video
EXT2 output : Monitor
MENU: return to Feature menu
CALL: to exit

To select output signal for Scart 2

This feature enables you to select the source to output from Scart 2. e.g. If you connect a stereo satellite receiver to Scart 1 and a stereo video recorder to Scart 2, and select EXT1 as the EXT2 output (ie you will output the signal received through Scart 1 directly out to Scart 2), you will be able to record the stereo satellite transmission in stereo.

1 Press the ▲ (or ▼) button to ***select*** **EXT2 output**, then press the + (or −) button to ***select*** between Monitor, EXT3, EXT2, EXT1 or TV.

(Monitor = Picture on screen)
(TV = TV tuner)

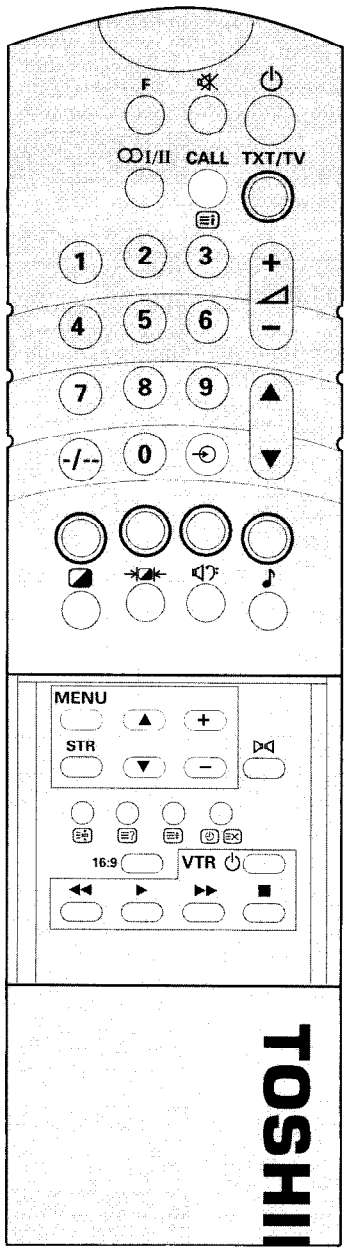
▲▼ AV connection
DIGITAL INPUT: EXT2
EXT2 input : AV
EXT3 input : S-Video
EXT2 output : EXT1 −+
MENU: return to Feature menu
CALL: to exit

Input Selection, Colour system selection

NOTE: To identify the current programme position press the **CALL** button. Press again to cancel the display.

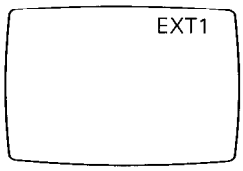
Input Selection:

Most video recorders and satellite receivers send a signal through the Scart lead to switch the TV to the correct input socket. Alternatively you may select it with the external source selection button ⊕.

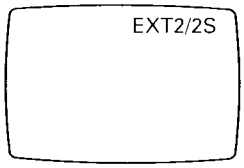


Input Selection (If the TV does not switch over automatically)

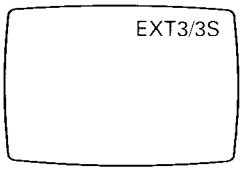
1 Press the ⊕ button to bring up the adjacent display. This will display the signal coming in through Scart 1.



2 Press the ⊕ button again to ***select*** the equipment connected to Scart 2 (EXT2 or EXT2S) ⊡(2).



3 Press the ⊕ button again to ***select*** the equipment connected to Scart 3 (EXT3 or EXT3S) or input 3, ⊡(3), on the back of the TV or input 3, ⊕(3), on the front of the TV.



To return to TV mode simply press one of the numbered buttons on the remote control. To view the auxiliary equipment once again, simply press the ⊕ button.

ADDITIONAL FEATURES

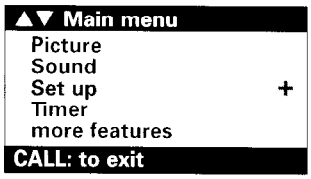
Colour system selection:

When using an external source ie video recorder, if there is little or no colour, improvements may sometimes be achieved by trying a different Colour mode. Selecting AUTO as described below, the TV will automatically display the best Colour system.

To select the Colour System (only available when using an external source).

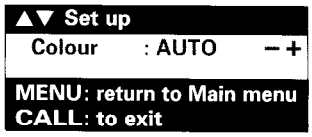
1 With the **Main menu** showing.

Press the ⊡ (or ⊡) button to ***highlight*** Set up.



2 Press the ⊡ button to ***select*** the **Set up** menu.

3 Press the ⊡ (or ⊡) button to ***select*** the required colour system.

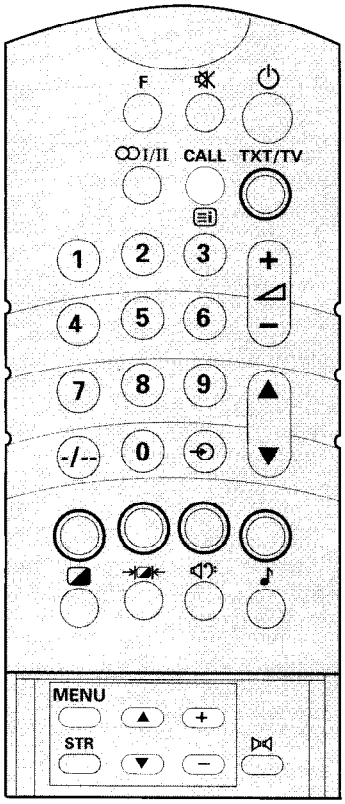


AUTO (which will automatically sense the system transmitted).
PAL
4.43NTSC or
3.58NTSC.

Teletext

Character set for Teletext:

The Character-1/Character-2 option enables the display of different alphabets when using Teletext.



The Teletext System on this television offers two different ways of viewing text.

Selecting Auto as described opposite, the TV will automatically display the best text system available ie if FASTEXT is transmitted it will be displayed. If no FASTEXT is available, normal text will be displayed.

Selecting List will enable you to 'link' chosen pages. (See page 33)

To select Character set for Teletext

1 Press the **MENU** button and using the ▲ (or ▼) button ***highlight*** more features.

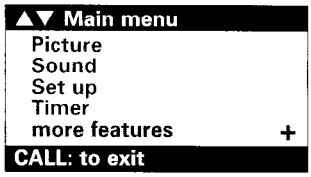
Press the + button to ***select*** the **Feature menu.**

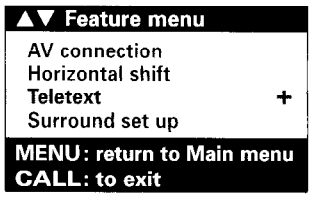
2 Press the ▲ (or ▼) button repeatedly to ***highlight*** Teletext.

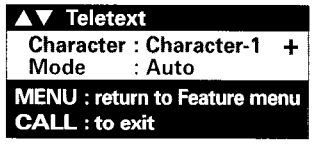
Press the + button to ***select*** the **Teletext** menu.

Press the + button to ***select*** the **Character** menu.

Press + (or −) button to ***select*** the required character set.







Character-1		
English	Français	Deutsch
Italiano	Español	Jazyk
Svenska	Português	
Character-2		
Po polsku	Romana	Jazyk
Srpski	Français	Deutsch
Italiano	Svenska	

Teletext mode:

To select Teletext mode

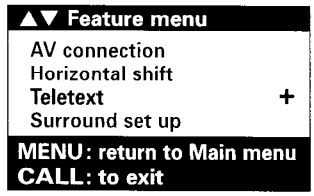
1 With the **Feature menu** showing.

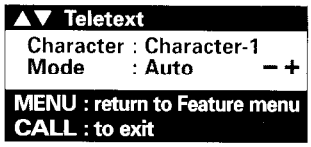
Press the ▲ (or ▼) button repeatedly to ***highlight*** Teletext.

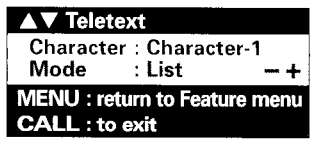
2 Press the + button to ***select*** the **Teletext** menu.

Press the ▲ (or ▼) button repeatedly to ***highlight*** Mode.

Press the + (or −) button to ***select*** between **Auto** and **List** modes.







Teletext

This set has a 500 page teletext memory, which takes a few moments to load. The Teletext System on this television offers two different ways of viewing text. The systems available will depend on which system(s) are broadcast by your television broadcast station. Your Toshiba dealer will be able to advise you.

Using Teletext:

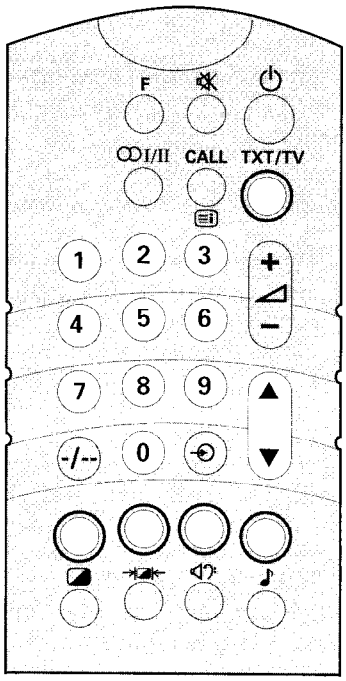
When you first select teletext you will see an initial page which briefly outlines the main subject areas and their relevant page numbers. You can access any teletext page by entering a 3 digit page number using the numbered buttons on the remote control.

To advance to the next page of teletext, press the ▲ button, to go back to the previous page press the ▼ button.

FASTEXT is a method of viewing teletext pages by related subjects. These subject areas are grouped by the broadcast studio and are selected by pressing one of the associated coloured prompt buttons on the remote control.

LIST mode enables you to select an INITIAL page and four user selected teletext pages on any programme position 0-9.

To change between Auto and List see page 32.



Note: Cancel text before changing channels whilst using a satellite receiver.

Using AUTO

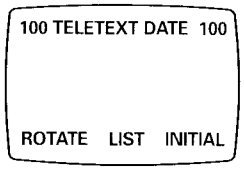
Press the **TXT/TV** button to ***select*** **Teletext**.

If **FASTEXT** is available, you will see 4 coloured titles at the base of the TV screen. To access any given subject simply press the relevant coloured button on the remote control.
If **FASTEXT** is not available, you can access any page simply by entering a 3 digit page number. For further information on your particular text system(s) see the broadcast teletext index page or consult your local Toshiba dealer.

Using LIST Mode

1 Press the **TXT/TV** button to ***select*** **Teletext**.

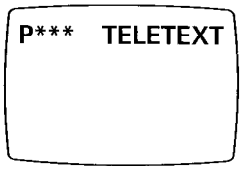
2 To programme the set to hold your 4 favourite pages in memory. Select the LIST function by pressing the GREEN button.

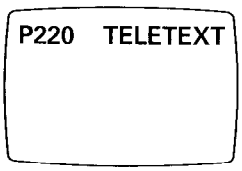


3 Enter the first page number (in purple) then press the GREEN button. (If the number reverts to white simply press the GREEN button again.) Repeat step 3 for each of the desired 4 pages.

4 To view the selected pages press the RED button for ROTATE.

5 On programme positions 0-9 you can pre-programme an INITIAL page. Select the INITIAL function by pressing the YELLOW button. P*** will appear in the top left corner of the screen. Enter the required 3 digit page number. As you key in the desired INITIAL page, for example page 220, the numbers will replace the ***.





Whenever text is first selected on this programme position this INITIAL page will be displayed.

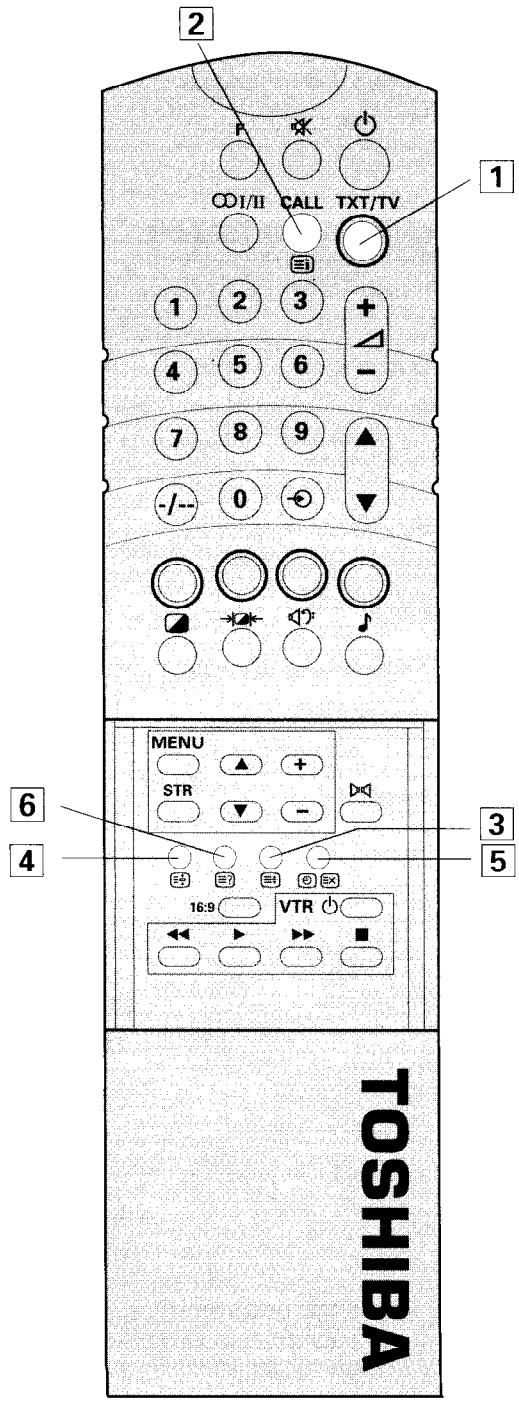
Note: It will not be possible to change programme position whilst in Teletext mode, you will have to cancel the teletext first by pressing the **TXT/TV** button twice.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

Teletext buttons on the remote control:

Note: It will not be possible to change programme position whilst in Teletext mode, you will have to cancel the teletext first by pressing the **TXT/TV** button twice.



1 TXT/TV To display a page of teletext:

Press the **TXT/TV** button to display teletext. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode.

2 To display an index/initial page:

In Fastext-mode
Press the button to call up the index page for the subject area you are viewing. If you are viewing a section index, by pressing the button again you will see the general index.

In List-mode
Press the button to return to your chosen initial page.

3 To enlarge the teletext display size:

Press the button once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

4 To hold a wanted page:

At times it is convenient to hold a page of teletext. Press the button and the word HOLD will appear in the top left of the screen. Press again to release.

5 To select a page whilst viewing a normal picture:

When in teletext mode, if a page selection is made and then the button is pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press the **TXT/TV** button to view the page.

To display news flashes:
To view news flashes as they are broadcast, select the news flash page for the particular teletext service (see the index page of teletext service). Press the button. The news flashes will be displayed as and when they are broadcast. Press the button to cancel the display.
Note: It will not be possible to change programme position whilst in this mode, you will have to press the **TXT/TV** button to cancel the teletext first.

6 To reveal concealed text:

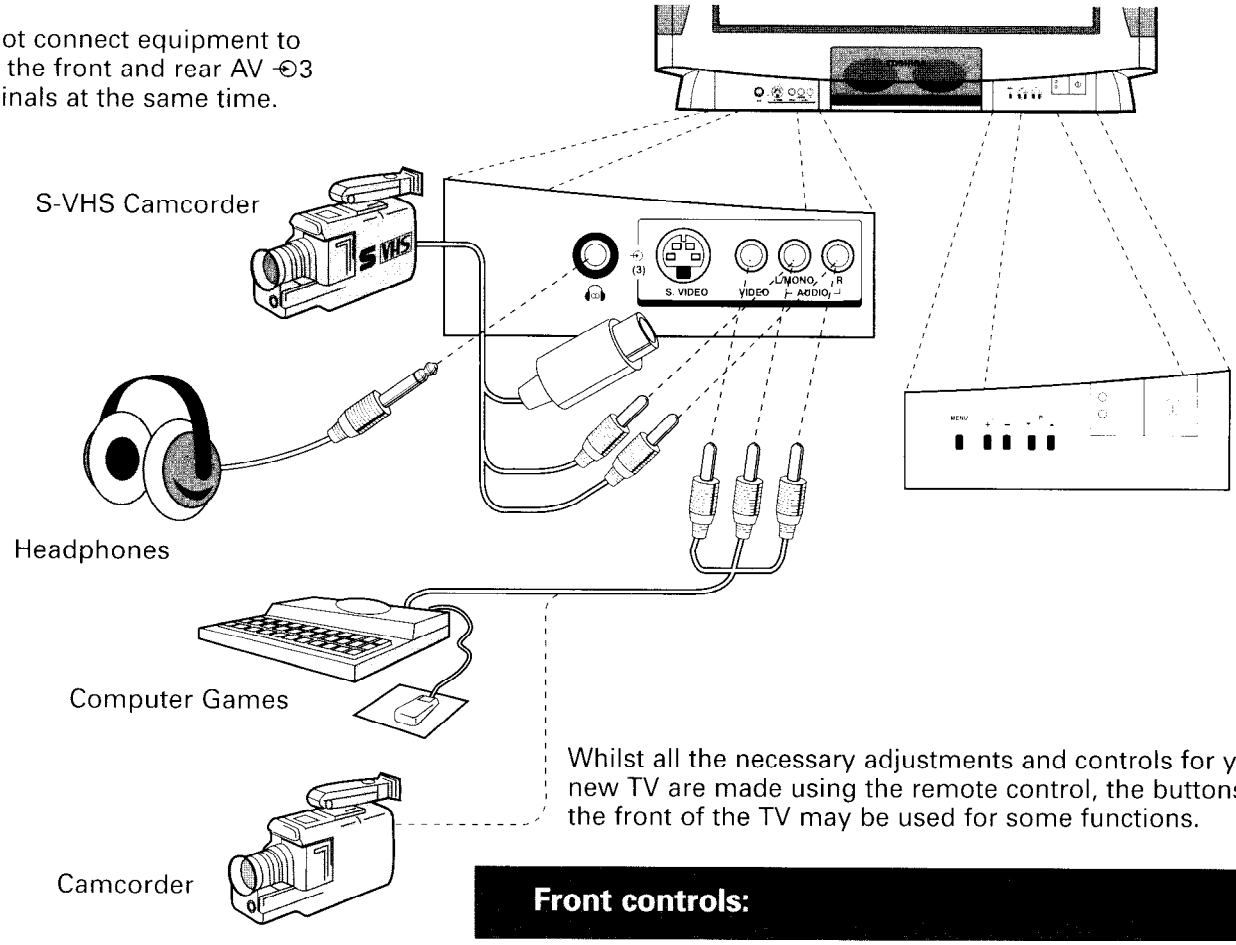
Some pages cover topics such as quizzes and jokes. To discover the solutions press the button.

TV front panel

You are able to connect a wide variety of auxiliary equipment via the phono sockets located behind the flap on the front of the TV. To open press the right hand side of the flap. For full details always refer to the owner's manual of the equipment to be connected.

Front connections:

Do not connect equipment to both the front and rear AV ⇔3 terminals at the same time.



If you connect mono sound equipment to input 3, connect the audio output of the equipment to the L/Mono jack on the TV.

To select the front inputs, press the ⇔ button until the display shows EXT3 or EXT3S. (See page 31)

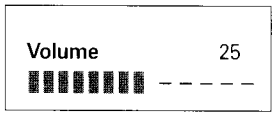
Before connecting any external equipment, turn off all main power switches. If connecting any equipment using S-Video connectors please note that the S-Video jack accepts the separated luminance/chrominance (Y/C) signals.

Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby Digital or surround effects when using headphones.

Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used for some functions.

Front controls:

1 To alter the volume press the ◿+ (or −) button.



2 To alter the programme position press the Ⓟ ▲ (or ▼) button.

1 Press the **MENU** button to bring up the **Main menu**.

2 Press the ▲ (or ▼) button to ***highlight*** the desired item.

3 Press the + button to ***select*** the desired menu. Press the ▲ (or ▼) button to ***highlight*** the desired item.

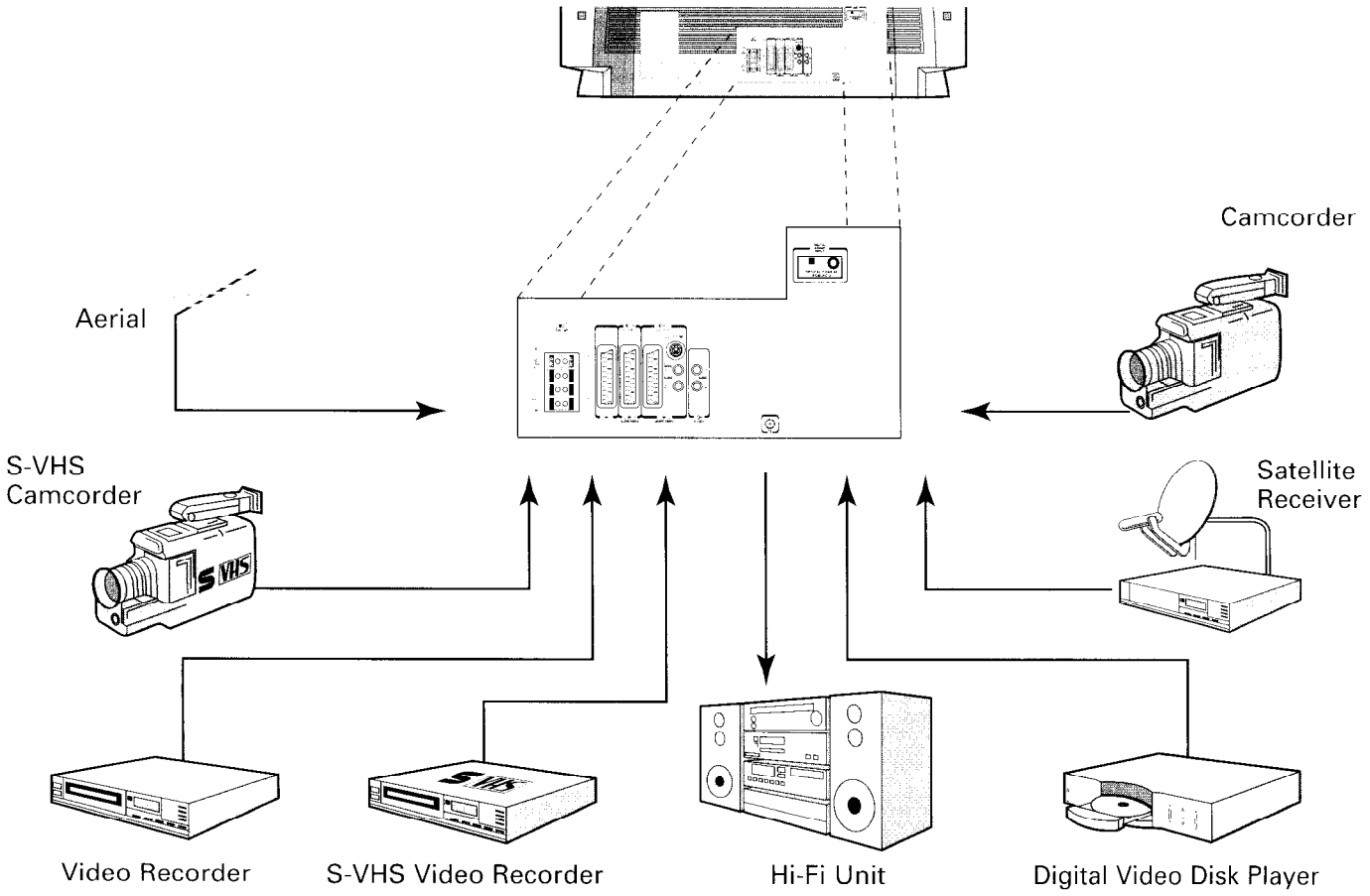
Press the + (or −) button to ***select/adjust*** the desired item.

Allow display to disappear or press the **MENU** button on the front of the TV to exit.

Back connections

If you connect mono sound equipment to input 3, connect the audio output of the equipment to the L/Mono jack on the TV.

Back connections:



On the back of the TV are 3 Scart sockets, a selection of phono sockets and a Super-video socket, all of which will enable you to connect a variety of auxiliary equipment.

There is also an optical link connection or a 3.5 mm jack plug for use with a Digital Video Disk player/Laserdisk etc.

In addition there is a fixed external audio output which enables the connection of a suitable Hi-Fi unit.

Before connecting any external equipment, turn off all main power switches. If connecting any equipment using S-Video connectors please note that the S-Video jack accepts the separated luminance/chrominance (Y/C) signals.

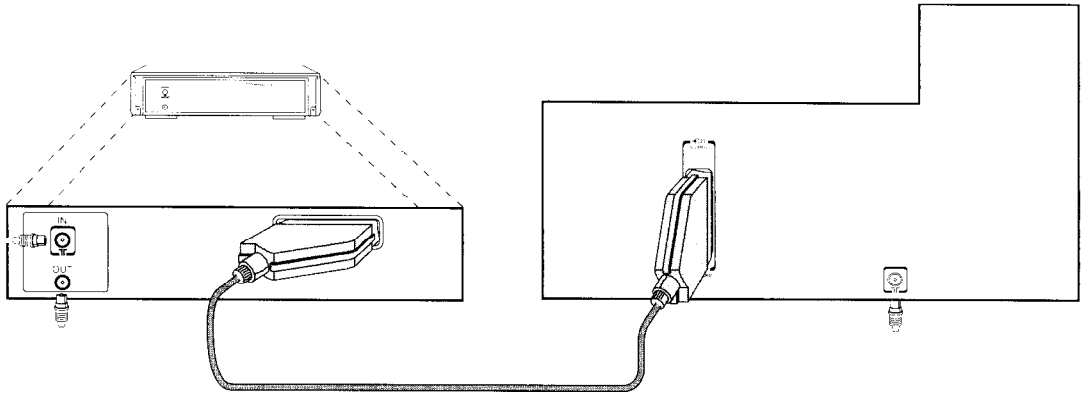
If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊕ button repeatedly to select between EXT1, EXT2 and EXT3.

For example:
To view a video recorder press the ⊕ button repeatedly to select EXT1, EXT2 or EXT3.
To return to normal TV press one of the numbered buttons on the remote control.
To return to watching a video press the ⊕ button again.

Connecting a video recorder, Connecting a S-VHS video recorder

If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊖ button repeatedly to select between EXT1, EXT2 and EXT3.

Connecting a video recorder:

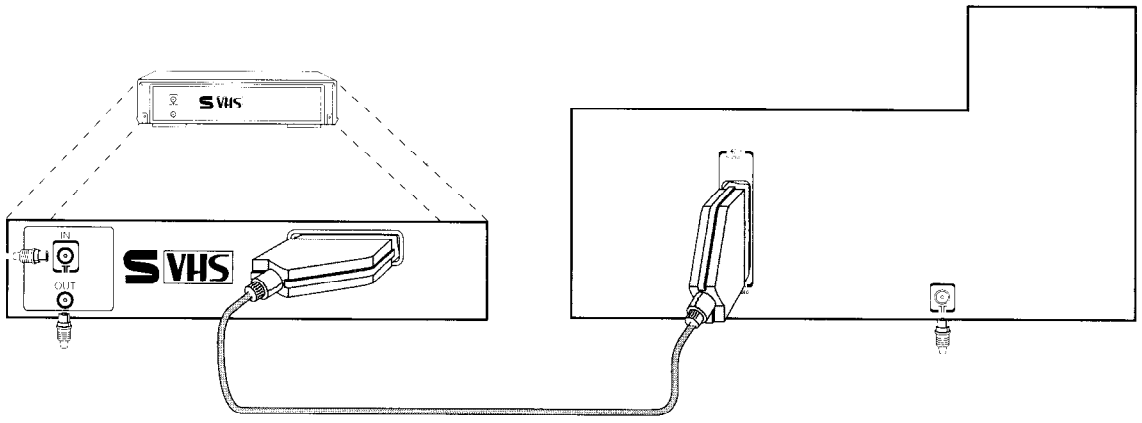


When connecting a normal (AV) video recorder we recommend that you connect it to Scart 2.

Connect the output Scart terminal on the video to Scart 2 on the rear of the TV using a full 21 pin Scart lead. If you wish to connect a second video recorder, connect it to Scart 1.

Ensure that AV is selected for EXT2 rather than S-video as described on page 30. When you press play on the video recorder, the TV should automatically display the video signal. If it does not, press the ⊖ button on the remote control repeatedly to select the appropriate source. Each time you press the button, the TV, EXT1, EXT2 or EXT3 source will be selected in order. For further information see page 31 of this handbook.

Connecting a S-VHS video recorder:

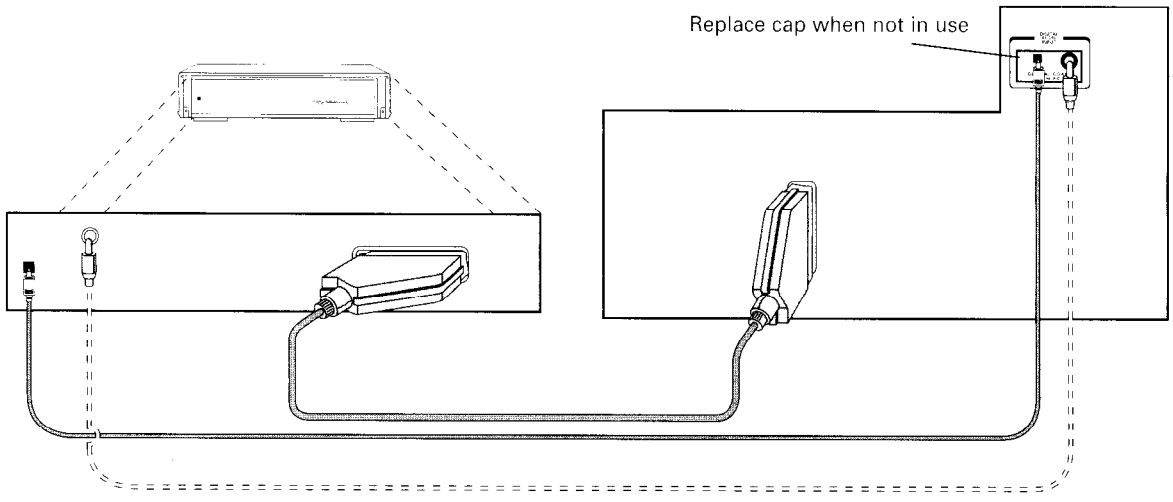


Connect the output Scart terminal on the video to Scart 2 on the rear of the TV using a full 21 pin Scart lead. If you wish to connect a second video recorder, connect it to Scart 1.

Ensure that S-video is selected for EXT2 rather than AV as described on page 30. When you press play on the video recorder, the TV should automatically display the video signal. If it does not press the ⊖ button on the remote control repeatedly to select the appropriate source. Each time you press the button, the TV, EXT1, EXT2 or EXT3 source will be selected in order. For further information see page 31 of this handbook.

Connecting a Digital Video Disk player and Satellite Receiver

Scart and Optical lead:

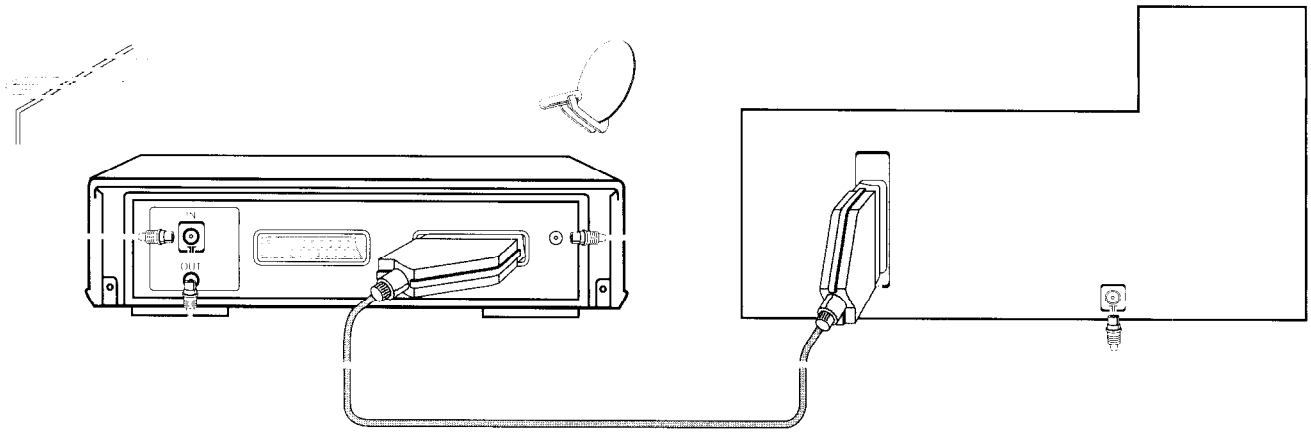


Connect a Scart lead from the DVD to Scart 3 on the rear of the TV. Connect **EITHER** an Optical lead **OR** a standard coaxial cable with 3.5 mm jack plugs from the DVD to the rear of the TV. Select the 'AV set-up' from the Feature menu and set EXT 3 to DIGITAL INPUT (See page 30).

This TV will accept PCM (32kHz/16bits), (44.1kHz/16bits), (48kHz/16bits) input signals, but not (96kHz/24bits) or MPEG input signals.

For full details on the operation of a DVD player, refer to the DVD Owners Manual.

Connecting the Satellite Receiver:



Connect a Scart lead from the satellite receiver to Scart 1 on the rear of the TV. Connect the aerial as described on page 3.

If your TV automatically switches over to monitor the auxiliary equipment you can return to normal TV simply by pressing the desired programme position button. To recall the auxiliary equipment, press the ⊖ button repeatedly to select between EXT1, EXT2 and EXT3.

For your guidance

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED.

Safety advice:

This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.
DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.
DO leave at least 10 cm clearance around the top, sides and back of the TV to allow adequate ventilation and sound response.
DO be careful with glass panels or doors on equipment.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand with the fixings provided, according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL - NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case - this could result in a fatal electric shock - NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

Simple problem solving:

If your TV fails to operate correctly, we recommend that the following simple checks are carried out before contacting your local Toshiba dealer.

No Picture or Sound.
Check: - mains switches are on, press ⏻.
Plug into a known working mains socket.
- 'Timer off' facility has operated.

Poor or no Picture.
Try a different TV station, check your aerial and connections. Adjust fine tuning. If the picture quality is poor it can sometimes be improved by changing the NR to Low or High (see Noise Reduction).

Coloured patches on screen.
Often caused by magnetic field interference. Turn off the TV for 10 minutes and then turn on again.

VTR or Satellite picture in Black and White.
Ensure the correct input socket is being used and that the socket is not set to S-Video. (see AV connections).

Good picture but no sound.
Press ◿+ or 🔇.

No sound heard from the external Left and Right speakers.
Check the speaker switch has been set to EXT.

Remote Control does not work.
Check the batteries.

No Dolby Surround.
If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that the direct left and right audio signals are input to the TV by means of one of the 21-pin Scart sockets.

No Dolby Digital.
If you are unable to obtain full Dolby Digital check: The Rear speaker (in Surround Set up) says "yes" and the DVD/Laserdisk is either connected by optical link or through the S-Video connectors and the external source is set to S-Video (in AV connection). Check that the correct external source is selected i.e. EXT3 (in AV connection).

If you experience sound problems from a DVD player, switch off the DVD player for a minute and try again.

As DVD players vary, if "No Signal" appears on screen try pressing the play button.

If you connect external front left and right speakers, you must set the External speaker switch to EXT to get the full benefit of Dolby Digital – if the switch is left on INT the external speakers will not function. **Turn the television off** before changing the position of the switch.

If you have problems with teletext.
Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check your aerial. Go to the main index page of the teletext service and look for the User Guide. This will explain the basic operation of teletext in some detail.

If you need further information on how to use text (see the Teletext section).

Cleaning the screen and cabinet. After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

Specifications, Accessories

Specifications:

Receiving system/channels	CCIR (I-PAL) TV Broadcast standard UHF: 21-69
Programme Positions	100
Standby Power consumption	7 watts
Mains Plug 'Fitted' Fuse	5 amp
Power consumption	169 watts
Stereo	Dolby Digital, Nicam
Video Input	PAL, PAL 60 Hz. (Video disk playback) NTSC 3.58/4.43 MHz./50Hz. NTSC (VTR playback)
Input/Output Input/Output Input/Output Fixed Output Front input	Scart-1 (Full -21 pin) RGB, AV Scart-2 (21 pin) AV, S-video, Selectable output Scart-3 (21 pin) AV, S-video, 4 pin S-video, RCA jack Audio L + R Input 3 (4 pin S-video, AV and L + R audio, RCA jack) (Note: Front and Rear Input 3 are common)
Digital Audio Input	Optical or Coaxial
Visible Screen Size (Measured diagonally)	90 cm
Sound output (at 10% distortion)	Main: 15W + 15W rms Woofer: 25W Centre: 15W Surround: 15W + 15W
Dimensions	1006 mm (W) 784.5 mm (H) 647 mm (D)
Weight	76.5 Kg (approx.)
Headphone Socket	3.5 mm Stereo

Accessories:

1 Remote control
2 (R6 or AA) batteries
1 Scart lead

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